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16		DISTRICT COURT
17	NOKI HEKN DISI KI	CT OF CALIFORNIA
18		Case No:
19	RALPH MILAN, SARAH AQUINO, and	
20	ELIZABETH ARNOLD on behalf of	CLASS ACTION
-	themselves, those similarly situated and the	
21	general public,	COMPLAINT FOR:
22	Plaintiffs,	VIOLATIONS OF CAL. BUS. & PROF. CODE §§17200 et seq.; CAL.
23		BUS. & PROF. CODE §§17500 et seq.;
24	V.	CAL. CIV. CODE §§ 1750 et seq.; N.Y.
25	CLIF BAR & COMPANY,	GEN. BUS. L. § 349; N.Y. GEN. BUS. L. § 350; BREACH OF EXPRESS &
26		IMPLIED WARRANTIES
27	Defendant.	
28		DEMAND FOR JURY TRIAL
-0		
	CLASS ACTIO	N COMPLAINT

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Plaintiffs Ralph Milan, Sarah Aquino, and Elizabeth Arnold on behalf of themselves,
 all others similarly situated, and the general public, by and through their undersigned
 counsel, hereby sue Defendant Clif Bar & Company ("Clif"), and allege the following upon
 their own knowledge, or where they lack personal knowledge, upon information and belief,
 including the investigation of their counsel.

### **INTRODUCTION**

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7 1. A vast body of reliable scientific evidence establishes that excessive
8 consumption of added sugar—any amount above approximately 5% of daily caloric intake—
9 is toxic to the human body and greatly increases the risk of cardiovascular disease, diabetes,
10 liver disease, and a wide variety of other chronic diseases.

Despite the compelling evidence that sugar acts as a chronic liver toxin,
 detrimentally affecting health, and despite that as much as 37% of the calories in Clif's Kid
 ZBars and "Classic" Clif Bars (the "Products") come from added sugar, Clif markets these
 so-called "nutrition" bars with labeling and packaging claims that convey a health and
 wellness message with the goal of increasing the price and sales of its high-sugar "nutrition"
 bars.

3. The claims, designed to appeal to health conscious consumers, however, are
deceptive because they are incompatible with the dangers of the excessive sugar
consumption to which the Products contribute.

20 Plaintiffs, who were deceived into purchasing the Products, bring this action 4. 21 challenging Defendant's deceptive claims on behalf of themselves and all others similarly situated consumers alleging violations of California's Consumer Legal Remedies Act (Cal. 22 Civ. Code § 1750, et seq., "CLRA"), Unfair Competition Law (Cal. Bus. & Prof. Code § 23 17200, et seq., "UCL"), and False Advertising Law (Cal. Bus. & Prof. Code § 17500, et seq., 24 25 "FAL"), New York's Unfair and Deceptive Business Practices Law, N.Y. Gen. Bus. L. § 26 349 ("UDBP") and False Advertising Law, N.Y. Gen. Bus. L. § 350 ("NY FAL"). Plaintiffs also allege breaches of express and implied warranties under California and New York state 27 28 law.

### **CLASS ACTION COMPLAINT**

5. Plaintiffs primarily seek an order compelling Clif to cease marketing the highsugar Products using deceptive claims.

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### **JURISDICTION & VENUE**

This Court has jurisdiction over this action pursuant to 28 U.S.C. § 6. 4 1332(d)(2)(A), the Class Action Fairness Act, because the matter in controversy exceeds the 5 sum or value of \$5,000,000 exclusive of interest and costs, and at least one member of the 6 class of plaintiffs is a citizen of a State different from Defendant. In addition, more than two-7 thirds of the members of the class reside in states other than the state in which Defendant is 8 a citizen and in which this case is filed, and therefore any exceptions to jurisdiction under 28 9 U.S.C. § 1332(d) do not apply.

The Court has personal jurisdiction over Defendant because it is incorporated 11 7. 12 and headquartered in California, and has purposely availed itself of the benefits and privileges of conducting business activities within the State of California through the 13 intentional promotion, marketing, distribution, and sale of the high-sugar Products in 14 California. 15

Venue is proper in the Northern District of California pursuant to 28 U.S.C. § 8. 16 1391 because Defendant resides in this district, many of the acts and transactions giving rise 17 to this action occurred in this district, and because Defendant has intentionally availed itself 18 of the laws and markets within this district through the promotion, marketing, distribution 19 20 and sale of the high-sugar Products in this district and is subject to personal jurisdiction in 21 this district.

### **INTRADISTRICT ASSIGNMENT**

23 9. This civil action arises out of the acts and omissions of Defendants, which occurred in Alameda County. Pursuant to Civil Local Rule 3-2(c), (d), this action is correctly 24 assigned to the San Francisco or Oakland Division. 25

### PARTIES

Plaintiff Ralph Milan is a resident of Orange County and citizen of California. 10.

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1 11. Plaintiff Sarah Aquino is a resident of Los Angeles County and citizen of
 2 California.

12. Plaintiff Elizabeth Arnold is a resident and a citizen of New York.

13. Defendant Clif Bar & Company is a California Corporation with its principal place of business at 1451 66th Street, Emeryville, CA 94608. Clif Bar & Company manufactures, distributes, and markets the Products.

### **FACTS**

### I. There Has Been a Recent Rise in Human Sugar Consumption

9 Sugars are sweet, short-chain, soluble carbohydrates. Simple sugars are called 14. 10 monosaccharides, while disaccharides are formed when two monosaccharides undergo a condensation reaction. The three most common sugars in our diets are fructose, glucose, and 11 12 sucrose. Other sugars, like lactose, found in milk, and maltose, formed during the germination of grains like barley, are not generally consumed in large amounts. Glucose is 13 a monosaccharide that occurs naturally in fruits and plant juices and is the primary product 14 15 of photosynthesis. Most ingested carbohydrates (like bread and pasta) are converted into glucose during digestion, and glucose is the form of sugar transported around the body in 16 the bloodstream, and used by the cells for energy. Fructose is a monosaccharide that occurs 17 naturally in fruits and honey. It is the sweetest of the sugars. Sucrose is a disaccharide 18 comprised of one molecule of glucose chemically linked to one molecule of fructose. It is 19 20 found in sugar cane and beets. Common table sugar is sucrose. During digestion and prior 21 to blood absorption, enzymes called sucrases cleave a sucrose molecule into its constituent parts, glucose and fructose. 22

15. Humans' consumption of sugar has shifted dramatically over time. CroMagnon men during the Paleolithic age were hunters and gatherers, with a diet mainly
comprised of meat, high in protein, moderate in fat, and low in carbohydrates. Fruits and

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berries were the major source of carbohydrates, and starch consumption was low.<sup>1</sup> In 1200 1 B.C., a process was developed in India for extracting sugar in the form of cane juice called 2 khanda, which is where the word "candy" comes from. For nearly 3,000 years, sugar was 3 rare, reserved for nobility. The invention of the pot still in 1700 A.D., however, allowed 4 mass production of refined sugar. But it was still extraordinarily expensive until the middle 5 of the 18th century, when there was a worldwide growth in sugar production, including in 6 America. Thus, humans have been consuming sugar in substantial amounts for less than 300 7 8 years.

9 16. For most of that time, Americans' sugar consumption was almost exclusively
10 table sugar, with only small amounts of glucose and fructose ingested from fruit.<sup>2</sup> And sugar
11 was a condiment, added to coffee or tea, with control over the amount eaten.

12 17. In the 1960s, the food industry developed technologies to extract starch from corn, then convert it to glucose, some of which could then be converted to fructose, leading 13 to the development of corn-derived sweeteners, most notably high-fructose corn syrup 14 15 (HFCS).<sup>3</sup> Although HFCS is comprised of both fructose and glucose, unlike with sucrose, 16 the fructose is not chemically bound to the glucose in a new molecule. Thus the fructose in HFCS is referred to as "free" fructose. HFCS can be produced with different fructose-to-17 glucose ratios. The most common are HFCS-42 and HFCS-55, containing 42% and 55% 18 fructose. Some HFCS, however, can be as much as 90% fructose, i.e., HFCS-90. Food 19 20 manufacturers have recently begun referring to HFCS-90 on food label ingredients 21 statements as simply "fructose."

27  $||^2 Id.$ 

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28 3 *Id.* (citation omitted).

 <sup>&</sup>lt;sup>1</sup> Tappy, L., et al., "Metabolic Effects of Fructose in the Worldwide Increase in Obesity,"
 *Physiology Review*, Vol. 90, 23-46, at 24 (2010) [hereinafter "Tappy, Metabolic Effects of Fructose"].

18. Fructose is sweeter than either glucose or sucrose. In fruit, it serves as a marker
 for foods that are nutritionally rich. Before the development of the worldwide sugar industry,
 fructose in the human diet was limited to items like honey, dates, raisins, molasses, figs,
 grapes, raw apples, apple juice, persimmons, and blueberries (which contain approximately
 10-15% fructose). Food staples like milk, vegetables, and meat have essentially no fructose.
 Thus, until relatively recently, human beings have had little dietary exposure to fructose.<sup>4</sup>

19. But the low cost and long shelf-life of HFCS has contributed to a rapid increase
in its consumption over the last 45 years, and thus the consumption of fructose. Between
1970 and 2000, the United States' yearly per capita HFCS consumption went from 0.292 kg
per person, to 33.4 kg per person, a greater than 100-fold increase.<sup>5</sup>

11 20. Today, the majority of sugars in typical American diets are added to foods 12 during processing, preparation, or at the table.<sup>6</sup> The two primary sources of added sugar in 13 processed food are HFCS and sucrose (i.e., granulated sugar used, for example, in baked 14 goods). Added sugar is in more than 74% of processed foods,<sup>7</sup> under more than 60 different 15 names.<sup>8</sup> Although the tendency is to associate sugar with sweets, added sugar is found in 16 many savory processed foods, like bread, soup, and pasta sauce.

<sup>4</sup> Bray, G., "How bad is fructose?," *American Journal of Clinical Nutrition*, Vol. 86, 895-96 (2007) [hereinafter, "Bray, How Bad is Fructose?"].

<sup>5</sup> Bray, G.A., et al., "Consumption of high-fructose corn syrup in beverages may play a role in the epidemic of obesity," *American Journal of Clinical Nutrition*, Vol. 79, 537, 537, 540 (2004) [hereinafter "Bray, HFCS Role in Obesity Epidemic"].

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<sup>6</sup> U.S. Dep't of Agric. & U.S. Dep't of Health & Human Servs., "Dietary Guidelines for Americans, 2010," at 27 (2010) *available at*

24 http://www.health.gov/dietaryguidelines/dga2010/DietaryGuidelines2010.pdf.

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<sup>7</sup> Ng, S.W., et al., "Use of caloric and non-caloric sweeteners in US consumer packaged foods, 2005-9, *Journal of the Academy of Nutrition and Dietetics*, Vol. 112, No. 11, 1828-34 (2012).

<sup>8</sup> Some examples: Agave nectar, Barbados sugar, Barley malt, Barley malt syrup, Beet sugar, Brown sugar, Buttered syrup, Cane juice, Cane juice crystals, Cane sugar, Caramel, Carob syrup, Castor sugar, Coconut palm sugar, Coconut sugar, concentrated fruit juices,

1 21. There has been a rise over the past 45 years in Americans' consumption of added sugars. From 1970 to 2000, there was a 25% increase in available added sugars in the 2 U.S.<sup>9</sup> The American Heart Association found that between 1970 and 2005, added sugars 3 available for consumption increased by an average of 76 calories per day, from 25 teaspoons 4 5 (400 calories) to 29.8 teaspoons (476 calories), a 19% increase.<sup>10</sup> The Continuing Survey of Food Intake by Individuals from 1994 to 1996 showed that the average person had a daily 6 added sugars intake of 79 grams, equal to 316 calories and about 15% of energy intake. 7 8 Those in the top one-third of fructose consumption ingested 137 grams of added sugars per day (548 calories, about 26% of energy per day), and those in the top 10% of fructose 9 10 consumption ingested 178 grams of fructose per day (712 calories, about 34% of energy).<sup>11</sup>

11 22. In 2014, researchers analyzing data obtained from National Health and
12 Nutrition Examination Survey (NHANES) showed that during the most recent period of
13 2005-2010, the mean percent of calories from added sugar in the American diet was 14.9%.

<sup>Confectioner's sugar, Corn sweetener, Corn syrup, Corn syrup solids, Date sugar, Dehydrated case juice, Demerara sugar, Dextrin, Dextrose, Evaporated cane juice, Free-flowing brown sugars, Fructose, Fruit juice, Fruit juice concentrate, Glucose, Glucose solids, Golden sugar, Golden syrup, Grape sugar, High-Fructose Corn Syrup (HFCS), Honey, Icing sugar, Invert sugar, Malt syrup, Maltodextrin, Maltol, Maltose, Mannose, Maple syrup, Molasses, Muscovado, Palm sugar, Panocha, Powdered sugar, Raw sugar, Refiner's syrup, Rice syrup, Saccharose, Sorghum Syrup, Sucrose, Sugar (granulated), Sweet Sorghum, Syrup, Treacle, Turbinado sugar, and Yellow sugar.</sup> 

<sup>&</sup>lt;sup>9</sup> Bray, How Bad is Fructose?, *supra* n.4, at 895 (citing Havel, P.J., "Dietary fructose: implications for dysregulation of energy homeostasis and lipid/carbohydrate metabolism, *Nutrition Reviews*, Vol. 63, 133-57 (2005) [hereinafter, "*Havel, Dietary Fructose*"]).

<sup>&</sup>lt;sup>24</sup>
<sup>10</sup> Johnson, R.K., et al., on behalf of the American Heart Association Nutrition Committee of
the Council on Nutrition, Physical Activity, and Metabolism and Council on Epidemiology
and Prevention, "Dietary Sugars Intake and Cardiovascular Health: A Scientific Statement
From the American Heart Association," *Circulation*, Vol. 120, 1011-20, at 1016-17 (2009)
[hereinafter "AHA Scientific Statement"].

<sup>28 &</sup>lt;sup>11</sup> Bray, How Bad is Fructose?, *supra* n.4, at 895.

Most adults, 71.4%, consumed 10% or more of their calories from added sugar, while about 10% of adults consumed 25% or more of their calories from added sugar.<sup>12</sup>

3 While the availability and consumption of added sugars was increasing over the 23. past several decades, documents published in September 2016 demonstrated that "[t]he sugar 4 5 industry paid scientists in the 1960s to play down the link between sugar and heart disease and promote saturated fat as the culprit instead . . . . "<sup>13</sup> The documents show, for example, 6 that "the Sugar Research Foundation, known today as the Sugar Association, paid three 7 Harvard scientists the equivalent of about \$50,000 in today's dollars to publish a 1967 review 8 of research on sugar, fat and heart disease."<sup>14</sup> Due to the effort of the sugar industry and its 9 10 supporters, U.S. food policy, including FDA rulemaking, for many decades inappropriately focused on fats, largely ignoring the detrimental health consequences of consuming 11 12 excessive added sugar, leading to the obesity and type 2 diabetes epidemics present in the 13 U.S. today.

14 24. Today, "the vast majority of the U.S. population exceeds recommended intakes
15 of . . . added sugars."<sup>15</sup> Despite some reduction in added sugar intake recently, "intakes of

24  $1^{14}$  Id.

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<sup>&</sup>lt;sup>12</sup> Yang, Quanhe, et al., "Added Sugar Intake and Cardiovascular Diseases Mortality Among US Adults," *Journal of the American Medical Association*, at E4-5 (published online Feb. 3, 2014) [hereinafter, "Yang, NHANES Analysis"].

<sup>&</sup>lt;sup>22</sup>
<sup>13</sup> Anahad O'Connor, "How the Sugar Industry Shifted Blame to Fat," *New York Times* (Sept. 12, 2016).

<sup>&</sup>lt;sup>25</sup>
<sup>15</sup> U.S. Dep't of Agric. & U.S. Dep't of Health & Human Servs., "Scientific Report of the
<sup>26</sup>
<sup>2015</sup> Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Health
<sup>27</sup> and Human Services and the Secretary of Agriculture," at 26 (February 2015), *available at*<sup>28</sup> http://www.health.gov/dietaryguidelines/2015-scientific-report/PDFs/Scientific-Report-of<sup>28</sup> the-2015-Dietary-Guidelines-Advisory-Committee.pdf.

added sugars are still very high . . . and are well above recommended limits . . . .<sup>"16</sup> Approximately 90% of the population exceeds recommended daily limits.<sup>17</sup>

II. The Body's Physiological Response to Excess Sugar Consumption

### A. The Body's Response to Glucose

5 25. The body needs some glucose, largely to meet the brain's metabolic demands, 6 but also because all living cells use glucose for energy. Blood glucose levels below 25mg/dL 7 may result in coma, seizure, or death, while levels consistently exceeding 180 mg/dL can 8 cause long-term damage, including renal failure and atherosclerosis.

9 26. For these reasons, blood glucose concentration is tightly-regulated by 10 homeostatic regulatory systems. When blood glucose rises after a meal, beta cells in the 11 pancreas secrete insulin into the blood, which helps muscle, fat, and liver cells absorb the 12 glucose for energy, lowering the blood sugar. Too little blood sugar stimulates the secretion 13 of hormones that counteract the insulin and thus restore normal blood sugar.<sup>18</sup>

During certain steps in processing glucose, the body forms fructose. However,
unlike with glucose, there is no biological need for dietary fructose, i.e., fructose consumed
from food, whether fruit, honey, HFCS, or some other form. Moreover, unlike glucose,
fructose does not directly stimulate insulin secretion.

18 28. The body processes glucose and fructose differently. With little processing, 19 fructose passes through the small intestine, into blood bound for the liver, so that it is taken 20 up nearly 100% for processing in the liver (a characteristic shared by substances commonly 21 referred to as poisons). By contrast, glucose is both "burned up" by cells directly, and 22 processed elsewhere outside the liver, so that the liver must process only 20% of glucose 23 consumed.

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<sup>25</sup>  $1^{16}$  *Id.* at 38.

<sup>26</sup>  $1^{7}$  *Id.* at 35.

<sup>&</sup>lt;sup>27</sup>
<sup>18</sup> Ludwig, David S., "The Glycemic Index: Physiological Mechanisms Relating to Obesity,
<sup>28</sup> Diabetes, and Cardiovascular Disease," Journal American Medical Association, Vol. 287,
<sup>20</sup> No. 18, 2414-23, at 2415 (May 8, 2002) (citation omitted).

29. So much glucose is burned up prior to liver processing, because all the body's
 cells contain a transporter that, when stimulated by insulin, takes in glucose from the blood.
 By contrast, fructose can only be absorbed by cells that contain a different transporter, which
 most cells lack.

5 The liver is capable of processing relatively small amounts of sugar, meted out 30. 6 slowly. This is one of the reasons that eating the fructose in fruit is not problematic: the sugar 7 in fruit is encased in the fruit's fiber, which slows the sugar's uptake, and some sugar encased in fruit fiber may not even be released. Thus fruit consumption does not overwhelm the liver. 8 Notably, adding fiber to foods that are high in sugar does not replicate this effect, because 9 10 the sugar and fiber remain separate, and the sugar is not encased in the fiber like it is in fruit. Fruit also comes packaged with nutrients, like vitamins, that are beneficial for health, and 11 12 sends satiation signals to the brain, telling it that the body is full.

31. Because the liver has some capacity to process sugar, there does appear to be a
"safe" threshold of daily added sugar consumption, small enough not to overload the liver:
approximately 5% of calories, or about 38 grams (9 teaspoons, 150 calories) per day for men,
25 grams (6 teaspoons, 100 calories) per day for women, up to 25 grams (6 teaspoons, 100
calories) for children between 8 and 18 years old, and 12 grams (3 teaspoons, 48 calories)
for children 4 to 8 years old, which is the basis of the American Heart Association's
foregoing recommendations for maximum daily added sugar intake.<sup>19</sup>

32. But the long-term consumption of excess sugar can have dire physiological
consequences, acting as a chronic, dose-dependent liver toxin, overloading the liver and
causing chronic metabolic disease, also sometimes called metabolic syndrome, a cluster of
symptoms that, when present together, increase a person's risk of chronic disease like
cardiovascular disease and type 2 diabetes.

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AHA Scientific Statement, *supra* n.10; *see also* "How Much Is Too Much?," at
 http://www.sugarscience.org/the-growing-concern-of-overconsumption.

33. When excess sugar consumption overloads the liver, the glucose increases 1 insulin secretion, while the fructose gets turned into liver fat, causing insulin resistance. The 2 3 combination over time results in rapid and dramatic increases in blood glucose and insulin concentrations.<sup>20</sup> Over time, individuals with frequent insulin secretion may develop insulin 4 5 resistance, where the body produces insulin but does not use it effectively, so that glucose builds up in the blood instead of being absorbed by the cells. Because the muscle, fat, and 6 liver cells do not respond properly to insulin and thus cannot easily absorb glucose from the 7 bloodstream, the body needs higher levels of insulin. Eventually the pancreas' beta cells 8 cannot keep up with this increasing demand, and over time can no longer produce enough 9 10 insulin to overcome insulin resistance, so blood glucose levels remain high.

34. Currently, about two-thirds of the American population is overweight, about
one-quarter to one-third is diabetic or pre-diabetic, and another one-quarter is hypertensive.
Many Americans also have high serum triglycerides. Insulin resistance is a component of all
of these health issues.

15 35. Energy deposition into fat cells by insulin stimulate them to secrete a hormone
16 called leptin, which is a natural appetite suppressant that tells the brain the body is full and
17 can stop eating. Generally, glucose suppresses the hunger hormone, ghrelin, and stimulates
18 leptin. But high insulin levels brought on by excess sugar consumption have been linked to
19 leptin resistance, where the brain is desensitized to the hormone and so no longer "hears" the
20 message to stop eating.<sup>21</sup> Because increased insulin makes the body feel hungry, excess sugar

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<sup>&</sup>lt;sup>20</sup> Janssens, J.P., et al., "Effects of soft drink and table beer consumption on insulin response in normal teenagers and carbohydrate drink in youngsters," *European Journal of Cancer Prevention*, Vol. 8, 289-95 (1999) ("In contrast to table beer, consumption of regular soft drinks induced a fast and dramatic increase in both glucose and insulin concentration within a maximum 1 hour after consumption.").

<sup>&</sup>lt;sup>21</sup> Shapiro, A., et al., "Fructose-induced leptin resistance exacerbates weight gain in response
to subsequent high-fat feeding," *American Journal of Physiology, Regulatory, Integrative* and Comparative Physiology, Vol. 295, No. 5, R1370-75 (2008).

consumption can create a vicious cycle in which the more sugar one eats, the hungrier one
 feels.

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### B. The Body's Response to Fructose

36. But it is the fructose, found in most processed foods, that appears to cause the greatest harm in the shortest amount of time. Nearly all added sugars contain significant amounts of fructose. For example, HFCS typically contains approximately 42% or 55% fructose, while table sugar and other sweeteners, like cane sugar, contain 50% fructose.

Fructose is the most lipophilic carbohydrate, meaning it easily converts to a 8 37. form, glycerol, that supports conversion to fats, including free fatty acids, a damaging form 9 10 of cholesterol called very low-density lipoprotein (VLDL), and triglycerides, which get stored as fat. Studies in humans and animals have shown that fructose is preferentially 11 12 metabolized to lipid (fat) in the liver, leading to increased triglyceride levels, which are associated with insulin resistance and cardiovascular disease.<sup>22</sup> Fatty acids created during 13 fructose metabolism accumulate as fat droplets in the liver, also causing insulin resistance, 14 15 as well as non-alcoholic fatty liver disease. In addition, when the liver turns excess sugar into liver fat and becomes insulin resistant, that generates hyperinsulinemia, which drives 16 energy storage into body fat. 17

38. Glucose does not do this. Following consumption of 120 calories of glucose,
less than 1 calorie should be stored as fat, while 120 calories of fructose should result in 40
calories being stored as fat.

39. The metabolism of fructose also creates several waste products and toxins,
including uric acid, which drives up blood pressure, causes gout, and is a risk factor for
cardiovascular disease because the production of uric acid utilizes nitric oxide, a key

- 24 25 26
- <sup>22</sup> Elliot, S.S., et al., "Fructose, weight gain, and the insulin resistance syndrome," *American Journal of Clinical Nutrition*, Vol. 76, 911-22 (2002) [hereinafter, "Elliot, Fructose & Insulin Resistance"]; Bray, How Bad is Fructose?, *supra* n.4; Havel, Dietary Fructose, *supra* n.9.

modulator of vascular function, and causes inflammation. Experimental human studies confirm that fructose feeding raises serum uric acid levels.<sup>23</sup>

40. Moreover, fructose interferes with the brain's communication with leptin, which may result in overeating. And while glucose suppresses ghrelin, thus reducing hunger, fructose has no effect on ghrelin.

### C. The Addiction Response

7 41. Research shows that, for some people, eating sugar produces characteristics of
8 craving and withdrawal, along with chemical changes in the brain's reward center, the limbic
9 region, which can be similar to those of people addicted to drugs like cocaine and alcohol.<sup>24</sup>
10 These changes are linked to a heightened craving for more sugar.<sup>25</sup> This can create a vicious
11 cycle leading to chronic illness.

# 12 III. There Has Been a Dramatic Rise in Obesity & Chronic Disease That Parallels 13 the Rise in Human Sugar Consumption

- 42. As noted above, there was a dramatic rise in Americans' use of sugar, first in
  the mid-18th century, then again starting in the United States in about 1970, with the
  introduction into the market of HFCS. Concurrently with these changes in the diet have been
  alarming rises in obesity and chronic disease.
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<sup>&</sup>lt;sup>23</sup> Nguyen, S., et al., "Sugar Sweetened Beverages, Serum Uric Acid, and Blood Pressure in Adolescents," *Journal of Pediatrics*, Vol. 154, No. 6, 807-13 (June 2009) (citations omitted) [hereinafter, "Nguyen, Serum Uric Acid"]; Johnson, R.J., "Potential role of sugar (fructose) in the epidemic of hypertension, obesity and the metabolic syndrome, diabetes, kidney disease, and cardiovascular disease," *American Journal of Clinical Nutrition*, Vol. 86, 899-906 (2007); Nakagawa, T., et al., "A causal role for uric acid in fructose-induced metabolic syndrome," *American Journal of Physiology*, Vol. 290, F625-31 (2006).

<sup>&</sup>lt;sup>24</sup> Volkow, N.D., et al., "Drug addiction: the neurobiology of behavior gone awry," *Nature Reviews Neuroscience*, Vol. 5, No. 12, 963-70 (2004); Brownell, K.D., et al., "Food and addiction: A comprehensive handbook," *Oxford University Press* (2012).

<sup>&</sup>lt;sup>25</sup> Avena, N., "Evidence for sugar addiction: behavioral and neurochemical effects of intermittent, excessive sugar intake," *Neuroscience Behavior Review*, Vol. 52, No. 1, 20-39 (2008).

In 1924, New York City health commissioner Haven Emerson noted a seven fold increase in diabetes rates in the city. In 1931, Dr. Paul Dudley White, a cardiologist at
 Massachusetts General Hospital, warned of an epidemic of heart disease. And in 1988,
 scientists learned about the advent of adolescent type 2 diabetes.

44. In 2004, researchers reported their analysis of food consumption patterns from
1967 to 2000. Noting that HFCS consumption increased more than 1,000% from 1970 to
1990, "far exceeding the changes in intake of any other food or food group," researchers
found this "mirrors the rapid increase in obesity" seen during the same period, as
demonstrated in the below graphic.<sup>26</sup>

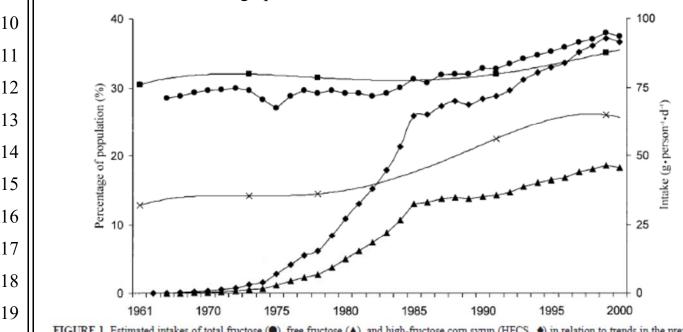


FIGURE 1. Estimated intakes of total fructose (•), free fructose (▲), and high-fructose corn syrup (HFCS, •) in relation to trends in the prevalence of overweight (■) and obesity (x) in the United States. Data from references 7 and 35.

45. Besides the compelling circumstantial evidence that increased sugar
consumption has led to chronic disease, there is substantial research showing the causal
mechanisms of disease and demonstrating substantial increased risk of chronic disease with
excess sugar consumption.

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<sup>26</sup> Bray, HFCS Role in Obesity Epidemic, *supra* n.5, at 537, 540-41 & Table 2; *see also*<sup>27</sup> Flegal, K.M., et al., "Prevalence and trends in obesity among US adults, 1999-2000," *Journal of the American Medical Association*, Vol. 288, 1723-27 (2002); Putnam, J.J., et al., "Food
<sup>28</sup> consumption, prices and expenditures, 1970-97," U.S. Department of Agriculture Economic Research Service statistical bulletin no. 695 (April 1999).

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### CLASS ACTION COMPLAINT

# IV. There is Substantial Scientific Evidence That Excess Sugar Consumption Causes Metabolic Syndrome, Cardiovascular Disease, Type 2 Diabetes, and Other Morbidity

4 46. Research shows that overloading the mitochondria—the energy-burning
5 factories within the cells—in any given organ will manifest various forms of chronic
6 metabolic disease. Whatever organ becomes insulin resistant manifests its own chronic
7 metabolic disease. For example, insulin resistance of the liver leads to type 2 diabetes. Insulin
8 resistance of the brain causes Alzheimer's disease. Insulin resistance of the kidney leads to
9 chronic renal disease.

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### 47. After artificial trans fat, the chemical that best overloads mitochondria is sugar.

### A. Excess Sugar Consumption Causes Metabolic Syndrome

12 48. Excess consumption of added sugar leads to metabolic syndrome by stressing and damaging crucial organs, including the pancreas and liver. When the pancreas, which 13 14 produces insulin, becomes overworked, it can fail to regulate blood sugar properly. Large 15 doses of fructose can overwhelm the liver, which metabolizes fructose. In the process, the liver will convert excess fructose to fat, which is stored in the liver and released into the 16 bloodstream. This process contributes to key elements of metabolic syndrome, including 17 high blood fats and triglycerides, high cholesterol, high blood pressure, and extra body fat, 18 especially in the belly.<sup>27</sup> 19

49. Metabolic disease has been linked to type 2 diabetes, cardiovascular disease,
obesity, polycystic ovary syndrome, nonalcoholic fatty liver disease, and chronic kidney
disease, and is defined as the presence of any three of the following:

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a. Large Waist Size (35" or more for women, 40" or more for men);

b. High triglycerides (150mg/dL or higher, or use of cholesterol medication);

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<sup>27</sup> Te Morenga, L., et al., "Dietary sugars and body weight: systematic review and metaanalyses of randomized controlled trials and cohort studies," *BJM* (January 2013) [hereinafter, "Te Morenga, Dietary Sugars & Body Weight"].

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### **CLASS ACTION COMPLAINT**

High total cholesterol, or HDL levels under 50mg/dL for women, and 40 c. mg for men;

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High blood pressure (135/85 mm or higher); or d.

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High blood sugar (100mg/dL or higher).

5 More generally, "metabolic abnormalities that are typical of the so-called 50. metabolic syndrome . . . includ[e] insulin resistance, impaired glucose tolerance, high 6 concentrations of circulating triacylglycerols, low concentrations of HDLs, and high 7 concentrations of small, dense LDLs."28 8

9 56 million Americans have metabolic syndrome, or about 22.9% over the age 51. 10 of 20, placing them at higher risk for chronic disease.

11 52. In 2010, Harvard researchers published a meta-analysis of three studies, involving 19,431 participants, concerning the effect of consuming sugar-sweetened 12 beverages on risk for metabolic syndrome. They found participants in the highest quantile 13 of 1-2 servings per day<sup>29</sup> had an average 20% greater risk of developing metabolic syndrome 14 than did those in the lowest quantile of less than 1 serving per day, showing "a clear link 15 between SSB consumption and risk of metabolic syndrome . . . . "<sup>30</sup> 16

Researchers who studied the incidence of metabolic syndrome and its 17 53. components in relation to soft drink consumption in more than 6,000 participants in the 18 19 Framingham Heart Study found that individuals who consumed 1 or more soft drinks per 20

<sup>&</sup>lt;sup>28</sup> Fried, S.K., "Sugars, hypertriglyceridemia, and cardiovascular disease," American Journal 22 of Clinical Nutrition, Vol. 78 (suppl.), 873S-80S, at 873S (2003) [hereinafter, "Fried, Hypertriglyceridemia"]. 23

<sup>24</sup> <sup>29</sup> Because 1 sugar-sweetened beverage typically has 140-150 calories and 35-37.5 grams of sugar per 12-ounce serving, this is equivalent to between 140 and 300 calories per day, and 25 35 to 75 grams of sugar per day. 26

<sup>&</sup>lt;sup>30</sup> Malik, Vasanti S., et al., "Sugar-Sweetened Beverages and Risk of Metabolic Syndrome 27 and Type 2 Diabetes," Diabetes Care, Vol. 33, No. 11, 2477-83, at 2477, 2480-81 (November 28 2010) [hereinafter "Malik, 2010 Meta-Analysis"].

day (i.e., 140-150 calories and 35-37.5 grams of sugar or more) had a 48% higher prevalence
of metabolic syndrome than infrequent consumers, those who drank less than 1 soft drink
per day. In addition, the frequent-consumer group had a 44% higher risk of developing
metabolic syndrome.<sup>31</sup>

5 54. Recently, researchers concluded a study to determine whether the detrimental
6 effects of dietary sugar were due to extremely high dosing, excess calories, or because of its
7 effects on weight gain, rather than caused by sugar consumption directly.<sup>32</sup> In other words,
8 the researchers dissociated the metabolic effects of dietary sugar from its calories and effects
9 on weight gain.

10 55. Because the researchers did not want to give subjects sugar to see if they got sick, they instead took sugar away from people who were already sick to see if they got well. 11 12 But if subjects lost weight, critics would argue that the drop in calories or weight loss was the reason for the clinical improvement. Therefore, the researchers designed the study to be 13 isocaloric, by giving back to subjects the same number of calories in starch that were taken 14 15 away in sugar. The study involved 43 children, ages 8 to 19, each obese with at least one other co-morbidity demonstrating metabolic problems. All were high consumers of added 16 sugar in their diets.<sup>33</sup> 17

18 56. To perform the study, researchers assessed subjects' home diets by two
19 questionnaires to determine how many calories, and how much fat, protein, and carbohydrate
20 they were eating. Subjects were then tested at a hospital based on their home diets. Then, for
21 the next 9 days, researchers catered the subjects' meals. The macronutrient percentages of

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 <sup>&</sup>lt;sup>31</sup> Dhingra, R., et al., "Soft Drink Consumption and Risk of Developing Cardiometabolic Risk Factors and the Metabolic Syndrome in Middle-Aged Adults in the Community,"
 *Circulation*, Vol. 116, 480-88 (2007) [hereinafter "Dhingra, Cardiometabolic Risk"].

<sup>&</sup>lt;sup>26</sup>
<sup>32</sup> Robert H. Lustig, et al., "Isocaloric Fructose Restriction and Metabolic Improvement in Children with Obesity and Metabolic Syndrome," *Pediatric Obesity*, Vol. 24, No. 2, 453-60 (Feb. 2016).

<sup>&</sup>lt;sup>33</sup> See id. at 453-54.

fat, protein, and carbohydrate were not changed. Subjects were fed the same calories and 1 percent of each macronutrient as their home diet; but within the carbohydrate fraction, 2 3 researchers took the added sugar out, and substituted starch. For example, researchers took pastries out, and put bagels in; took yogurt out, and put baked potato chips in; took chicken 4 5 teriyaki out, and put turkey hot dogs in (although subjects were still given whole fruit). Researchers reduced subjects' dietary sugar consumption from 28% to 10% of calories. 6 7 Researchers also gave subjects a scale to take home, and each day they would weigh 8 themselves. If they were losing weight, they were instructed to eat more. The goal was for subjects to remain weight-stable over the 10 days of study. On the final day, subjects came 9 10 back to the hospital for testing on their experimental low-added sugar diet. The study team analyzed the pre- and post-data in a blinded fashion so as not to introduce bias.<sup>34</sup> 11

12 57. Researchers analyzed three types of data. First, diastolic blood pressure
13 decreased by 5 points. Second, baseline blood levels of analytes associated with metabolic
14 disease, such as lipids, liver function tests, and lactate (a measure of metabolic performance)
15 all improved significantly. Third, fasting glucose decreased by 5 points. Glucose tolerance
16 improved markedly, and fasting insulin levels fell by 50%. Each of these results was highly17 statistically-significant.<sup>35</sup>

18 58. In sum, the study indicated that subjects improved their metabolic status in just
19 10 days, even while eating processed food, by just removing added sugar and substituting
20 starch. The metabolic improvement, moreover, was unrelated to changes in weight or body
21 fat.

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<sup>34</sup> See id. at 454-55.

<sup>35</sup> See id. at 455-56.

### **B.** Excess Sugar Consumption Causes Type 2 Diabetes

59. Diabetes affects 25.8 million Americans, and can cause kidney failure, lowerlimb amputation, and blindness. In addition, diabetes doubles the risk of colon and pancreatic cancers and is strongly associated with coronary artery disease and Alzheimer's disease.<sup>36</sup>

5 60. In 2010, Harvard researchers also performed a meta-analysis of 8 studies 6 concerning sugar-sweetened beverage consumption and risk of type 2 diabetes, involving a 7 total of 310,819 participants. They concluded that individuals in the highest quantile of SSB 8 intake had an average 26% greater risk of developing type 2 diabetes than those in the lowest 9 quantile.<sup>37</sup> Moreover, "larger studies with longer durations of follow-up tended to show 10 stronger associations."<sup>38</sup> Thus, the meta-analysis showed "a clear link between SSB 11 consumption and risk of . . . type 2 diabetes."<sup>39</sup>

An analysis of data for more than 50,000 women from the Nurses' Health
 Study,<sup>40</sup> during two 4-year periods (1991-1995, and 1995-1999), showed, after adjusting for
 confounding factors, that women who consumed 1 or more sugar-sweetened soft drink per

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<sup>38</sup> *Id.* at 2481.

<sup>39</sup> *Id*.

24 <sup>40</sup> The Nurses' Health Study was established at Harvard in 1976, and the Nurses' Health Study II, in 1989. Both are long-term epidemiological studies conducted on women's health. The 25 study followed 121,700 women registered nurses since 1976, and 116,000 female nurses since 1989, to assess risk factors for cancer, diabetes, and cardiovascular disease. The Nurses' 26 Health Studies are among the largest investigations into risk factors for major chronic disease 27 in women ever conducted. generally "The Nurses" Health See Study." at 28 http://www.channing.harvard.edu/nhs.

<sup>&</sup>lt;sup>36</sup> Aranceta Bartrina, J. et al., "Association between sucrose intake and cancer: a review of the evidence," *Nutrición Hospitalaria*, Vol. 28 (Suppl. 4), 95-105 (2013); Garcia-Jimenez, C., "A new link between diabetes and cancer: enhanced WNT/beta-catenin signaling by high glucose," *Journal of Molecular Endrocrinology*, Vol. 52, No. 1 (2014); Linden, G.J., "All-cause mortality and periodontitis in 60-70-year-old men: a prospective cohort study," *Journal of Clinical Periodontal*, Vol. 39, No. 1, 940-46 (October 2012).

<sup>&</sup>lt;sup>37</sup> Malik, 2010 Meta-Analysis, *supra* n.30 at 2477, 2480.

day (*i.e.*, 140-150 calories and 35-37.5 grams of sugar), had an 83% greater relative risk of
type 2 diabetes compared with those who consumed less than 1 such beverage per month,
and women who consumed 1 or more fruit punch drinks per day had a 100% greater relative
risk of type 2 diabetes.<sup>41</sup>

62. The result of this analysis shows a statistically significant linear trend with increasing sugar consumption.<sup>42</sup>

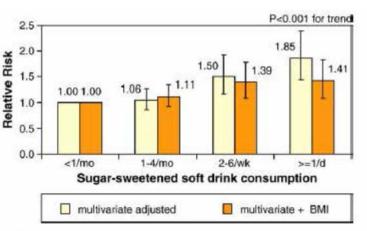


Fig. 4. Multivariate relative risks (RRs) of type 2 diabetes according to sugar-sweetened soft drink consumption in the Nurses' Health Study II 1991–1999 (Multivariate RRs were adjusted for age, alcohol (0, 0.1–4.9, 5.0–9.9, 10+ g/d), physical activity (quintiles), family history of diabetes, smoking (never, past, current), postmenopausal hormone use (never, ever), oral contraceptive use (never, past, current), intake (quintiles) of cereal fiber, magnesium, trans fat, polyunsaturated:saturated fat, and consumption of sugar-sweetened soft drinks, diet soft drinks, fruit juice, and fruit punch (other than the main exposure, depending on model). The data were based on Ref. [50]).

18 63. A prospective cohort study of more than 43,000 African American women
19 between 1995 and 2001 showed that the incidence of type 2 diabetes was higher with higher
20 intake of both sugar-sweetened soft drinks and fruit drinks. After adjusting for confounding
21 variables, those who drank 2 or more soft drinks per day (*i.e.*, 140-300 calories and 35-75
22 grams of sugar) showed a 24% greater risk of type 2 diabetes, and those who drank 2 or more

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<sup>&</sup>lt;sup>41</sup> Schulze, M.B., et al., "Sugar-Sweetened Beverages, Weight Gain, and Incidence of Type
Diabetes in Young and Middle-Aged Women," *Journal of the American Medical Association*, Vol. 292, No. 8, 927-34 (Aug. 25, 2004) [hereinafter "Schulze, Diabetes in Young & Middle-Aged Women"].

<sup>&</sup>lt;sup>27</sup><sup>42</sup> Hu, F.B., et al., "Sugar-sweetened beverages and risk of obesity and type 2 diabetes:
<sup>28</sup> Epidemioligic evidence," *Physiology & Behavior*, Vol. 100, 47-54 (2010).

fruit drinks per day showed a 31% greater risk of type 2 diabetes, than those who drank 1 or less such drinks per month.<sup>43</sup>

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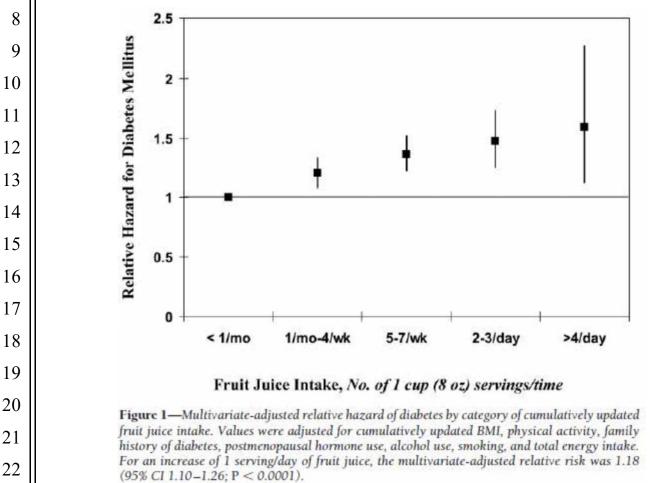
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64. A large cohort study of more than 70,000 women from the Nurses' Health Study followed for 18 years showed that those who consumed 2 to 3 apple, grapefruit, and orange juices per day (280-450 calories and 75-112.5 grams of sugar) had an 18% greater risk of type 2 diabetes than women who consumed less than 1 sugar-sweetened beverage per month. The data also showed a linear trend with increased consumption, as demonstrated below.<sup>44</sup>



<sup>43</sup> Palmer, J.R., et al., "Sugar-Sweetened Beverages and Incidence of Type 2 Diabetes Mellitus in African American Women," *Archive of internal Medicine*, Vol. 168, No. 14, 1487-82 (July 28, 2008) [hereinafter "Palmer, Diabetes in African American Women"].

<sup>27</sup>
<sup>44</sup> Bazzano, L.A., et al., "Intake of fruit, vegetables, and fruit juices and risk of diabetes in women," *Diabetes Care*, Vol. 31, 1311-17 (2008).

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65. An analysis of more than 40,000 men from the Health Professionals Follow-Up
 Study, a prospective cohort study conducted over a 20-year period, found that, after adjusting
 for age and a wide variety of other confounders, those in the top quartile of sugar-sweetened
 beverage intake had a 24% greater risk of type 2 diabetes than those in the bottom quartile,
 while consumption of artificially-sweetened beverages, after adjustment, showed no
 association.<sup>45</sup>

66. Most convincingly, an econometric analysis of repeated cross-sectional data
published in 2013 established a causal relationship between sugar availability and type 2
diabetes. After adjusting for a wide range of confounding factors, researchers found that an
increase of 150 calories per day related to an insignificant 0.1% rise in diabetes prevalence
by country, while an increase of 150 calories per day in sugar related to a 1.1% rise in
diabetes prevalence by country, a statically-significant 11-fold difference.<sup>46</sup>

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### C. Excess Sugar Consumption Causes Cardiovascular Disease

14 67. Sixteen million Americans have heart disease, which is the number one killer
15 in the United States.<sup>47</sup>

16 68. Data obtained from NHANES surveys during the periods of 1988-1994, 199917 2004, and 2005-2010, after adjusting for a wide variety of other factors, demonstrate that
18 those who consumed between 10% - 24.9% of their calories from added sugars had a 30%
19 greater risk of cardiovascular disease (CVD) mortality than those who consumed 5% or less
20 of their calories from added sugar. In addition, those who consumed 25% or more of their

 <sup>&</sup>lt;sup>45</sup> de Konig, L., et al., "Sugar-sweetened and artificially sweetened beverage consumption
 and risk of type 2 diabetes in men," *American Journal of Clinical Nutrition*, Vol. 93, 1321 <sup>27</sup> (2011).

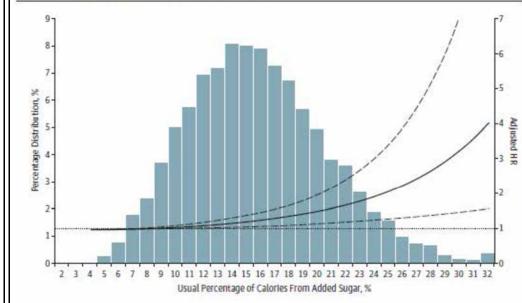
<sup>&</sup>lt;sup>46</sup> Basu, S., et al., "The Relationship of Sugar to Population-Level Diabetes Prevelance: An Econometric Analysis of Repeated Cross-Sectional Data," *PLOS Online*, Vol. 8, Issue 2 (February 27, 2013).

<sup>&</sup>lt;sup>27</sup> Gaddam, K.K., et al., "Metabolic syndrome and heart failure—the risk, paradox, and treatment," *Current Hypertension Reports*, Vol. 13, No. 2, 142-48 (2011).

calories from added sugars had an average 275% greater risk of CVD mortality than those who consumed less than 5% of calories from added sugar.<sup>48</sup>

69. Similarly, when compared to those who consumed approximately 8% of calories from added sugar, participants who consumed approximately 17% - 21% (the 4th quintile) of calories from added sugar had a 38% higher risk of CVD mortality, while the relative risk was more than double for those who consumed 21% or more of calories from added sugar (the 5th quintile). Thus, "[t]he risk of CVD mortality increased exponentially with increasing usual percentage of calories from added sugar,"<sup>49</sup> as demonstrated in the chart below.

Figure 1. Adjusted Hazard Ratio (HR) of the Usual Percentage of Calories From Added Sugar for Cardiovascular Disease Mortality Among US Adults 20 Years or Older: National Health and Nutrition Examination Survey Linked Mortality Files, 1988-2006



Histogram of the distribution of usual percentage of calories from added sugar in the population. Lines show the adjusted HRs from Cox models. Midvalue of quintile 1 (7.4%) was the reference standard. The model was adjusted for age, sex, race/ethnicity, educational attainment, smoking status, alcohol consumption, physical activity level, family history of cardiovascular disease, antihypertensive medication use, Healthy Eating Index score, body mass index, systolic blood pressure, total serum cholesterol, and total calories. Solid line indicates point estimates; dashed lines indicate 95% Cls.

70. The NHANES analysis also found "a significant association between sugarsweetened beverage consumption and risk of CVD mortality," with an average 29% greater risk of CVD mortality "when comparing participants who consumed 7 or more servings/wk

<sup>48</sup> Yang, NHANES Analysis, *supra* n.12 at E4-5.

 $28 ||^{49} Id.$ 

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(360 mL per serving) with those who consumed 1 serving/wk or less . . . .<sup>\*50</sup> The study
concluded that "most US adults consume more added sugar than is recommended for a
healthy diet. A higher percentage of calories from added sugar is associated with
significantly increased risk of CVD mortality. In addition, regular consumption of sugarsweetened beverages is associated with elevated CVD mortality.<sup>\*51</sup>

71. The Nurses' Health Study found that, after adjusting for other unhealthy
lifestyle factors, those who consumed two or more sugar-sweetened beverages per day (280
calories and 70 grams of sugar or more) had a 35% greater risk of coronary heart disease
compared with infrequent consumers.<sup>52</sup>

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### **D.** Excess Sugar Consumption Causes Liver Disease

11 72. Fructose consumption causes serious liver disease, including non-alcoholic
12 fatty liver disease (NAFLD), characterized by excess fat build-up in the liver. Five percent
13 of these cases develop into non-alcoholic steatohepatitis (NASH), scarring as the liver tries
14 to heal its injuries, which gradually cuts off vital blood flow to the liver. About 25% of
15 NASH patients progress to non-alcoholic liver cirrhosis, which requires a liver transplant or
16 can lead to death.<sup>53</sup>

17 73. Since 1980, the incidence of NAFLD and NASH has doubled, along with the18 rise of fructose consumption, with approximately 6 million Americans estimated to have

22 <sup>50</sup> *Id.* at E6.

23  $5^{11}$  *Id.* at E8.

<sup>24</sup> Fung T.T., et al., "Sweetened beverage consumption and risk of coronary heart disease in women," *American Journal of Clinical Nutrition*, Vol. 89 at 1037-42 (February 2009).

<sup>53</sup> Farrell, G.C., et al., "Nonalcoholic fatty liver disease: from steatosis to cirrhosis," *Hepatology*, Vol. 433, No. 2 (Suppl. 1), S99-S112 (February 2006); Powell, E.E., et al., "The Natural History of Nonalcoholic Steatohepatitis: A Follow-up Study of Forty-two Patients for Up to 21 Years," *Hepatology*, Vol. 11, No. 1 (1990). progressed to NASH and 600,000 to Nash-related cirrhosis. Most people with NASH also have type 2 diabetes. NASH is now the third-leading reason for liver transplant in America.<sup>54</sup>

Moreover, because the liver metabolizes sugar virtually identically to alcohol, 74. the U.S. is now seeing for the first time alcohol-related diseases in children. Conservative 4 estimates are that 31% of American adults, and 13% of American children suffer from NAFLD.55

> **Excess Sugar Consumption Causes Obesity** E.

8 75. Excess sugar consumption also leads to weight gain and obesity because insulin secreted in response to sugar intake instructs the cells to store excess energy as fat. This 9 excess weight can then exacerbate the problems of excess sugar consumption, because 10 excess fat, particularly around the waist, is in itself a primary cause of insulin resistance, 11 12 another vicious cycle. Studies have shown that belly fat produces hormones and other substances that can cause insulin resistance, high blood pressure, abnormal cholesterol 13 levels, and cardiovascular disease. And belly fat plays a part in the development of chronic 14 15 inflammation in the body, which can cause damage over time without any signs or symptoms. Complex interactions in fat tissue draw immune cells to the area, which triggers 16 low-level chronic inflammation. This in turn contributes even more to insulin resistance, 17 type 2 diabetes, and cardiovascular disease. 18

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### **CLASS ACTION COMPLAINT**

<sup>21</sup> <sup>54</sup> Charlton, M.R., et al., "Frequency and outcomes of liver transplantation for nonalcoholic 22 steatohepatitis in the United States," Gastroenterology, Vol. 141, No. 4, 1249-53 (October 2011). 23

<sup>&</sup>lt;sup>55</sup> Lindback, S.M., et al., "Pediatric Nonalcoholic Fatty Liver Disease: A Comprehensive 24 Review," Advances in Pediatrics, Vol. 57, No. 1, 85-140 (2010); Lazo, M. et al., "The 25 Epidemiology of Nonalcoholic Fatty Liver Disease: A Global Perspective," Seminars in Liver Disease, Vol. 28, No. 4, 339-50 (2008); Schwimmer, J.B., et al., "Prevalence of Fatty Liver 26 in Children and Adolescents," Pediatrics, Vol. 118, No. 4, 1388-93 (2006); Browning, J.D., 27 et al., "Prevalence of hepatic steatosis in an urban population in the United States: Impact of ethnicity," Hepatology, Vol. 40, No. 6, 1387-95 (2004). 28

76. Based on a meta-analysis of 30 studies between 1966 and 2005, Harvard
researchers found "strong evidence for the independent role of the intake of sugar-sweetened
beverages, particularly soda, in the promotion of weight gain and obesity in children and
adolescents. Findings from prospective cohort studies conducted in adults, taken in
conjunction with results from short-term feeding trials, also support a positive association
between soda consumption and weight gain, obesity, or both."<sup>56</sup>

7 77. A recent meta-analysis by Harvard researchers evaluating change in Body Mass
8 Index per increase in 1 serving of sugar-sweetened beverages per day found a significant
9 positive association between beverage intake and weight gain.<sup>57</sup>

- 10 78. One study of more than 2,000 2.5-year-old children followed for 3 years found
  11 that those who regularly consumed sugar-sweetened beverages between meals had a 240%
  12 better chance of being overweight than non-consumers.<sup>58</sup>
- 79. An analysis of data for more than 50,000 women from the Nurses' Health Study
  during two 4-year periods showed that weight gain over a 4-year period was highest among
  women who increased their sugar-sweetened beverage consumption from 1 or fewer drinks
  per week, to 1 or more drinks per day (8.0 kg gain during the 2 periods), and smallest among
  women who decreased their consumption or maintained a low intake level (2.8 kg gain).<sup>59</sup>
- 18 80. A study of more than 40,000 African American women over 10 years had
  19 similar results. After adjusting for confounding factors, those who increased sugar20

28 <sup>59</sup> Schulze, Diabetes in Young & Middle-Aged Women, *supra* n.41.

 <sup>&</sup>lt;sup>21</sup> <sup>56</sup> Malik, V.S., et al., "Intake of sugar-sweetened beverages and weight gain: a systematic review," *American Journal of Clinical Nutrition*, Vol. 84, 274-88 (2006).

<sup>&</sup>lt;sup>57</sup> Malik, V.S., et al., "Sugar-sweetened beverages and BMI in children and adolescents: reanalyses of a meta-analysis," *American Journal of Clinical Nutrition*, Vol. 29, 438-39 (2009).

<sup>&</sup>lt;sup>25</sup>
<sup>58</sup> Dubois, L., et al., "Regular sugar-sweetened beverage consumption between meals increases risk of overweight among preschool-aged children," *Journal of the American Dietetic Association*, Vol. 107, Issue 6, 924-34 (2007).

sweetened beverage intake from less than 1 serving per week, to more than 1 serving per
 day, gained the most weight (6.8 kg), while women who decreased their intake gained the
 least (4.1 kg).<sup>60</sup>

4 81. A study of more than 6,000 participants in the Framingham Heart Study found
5 those who consumed more than 1 soft drink per day had a 31% greater risk of obesity than
6 those who consumed less than 1 soft drink per day.<sup>61</sup>

7 82. The link between sugar intake and weight gain was also demonstrated in a
8 randomized, controlled intervention study, where "[a] simple 12 month school based
9 intervention focused on reducing consumption of carbonated drinks resulted in significant
10 differences in the proportion of overweight children in the control and intervention groups,"
11 as demonstrated in the chart below.

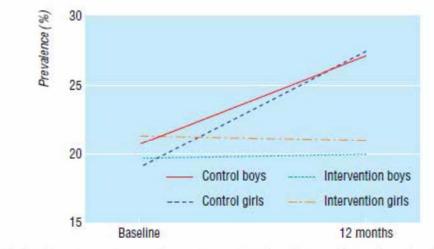


Fig 2 Mean change in prevalence of overweight and obese children from baseline to follow up at 12 months according to clusters

At a three-year follow-up, however, the significant difference seen between the groups after
 a year of focused education was no longer evident, with overweight children more prevalent
 in both groups, providing further support for the link between sugar and weight gain.<sup>62</sup>

25 <sup>60</sup> Palmer, Diabetes in African American Women, *supra* n.43.

<sup>26</sup> <sup>61</sup> Dhingra, Cardiometabolic Risk, *supra* n.31.

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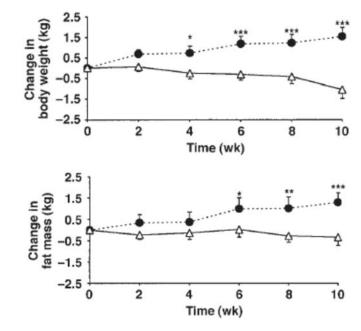
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<sup>27</sup>
<sup>62</sup> James, J. et al., "Preventing childhood obesity: two year follow-up results from the
<sup>62</sup> Christchurch obesity prevention programme in schools (CHOPPS)," *BJM*, Vol. 335, 762

83. Similarly, experimental short-term feeding studies comparing sugar-sweetened
 beverages to artificially-sweetened beverages have illustrated that consumption of the former
 leads to greater weight gain. As demonstrated in the chart below, one 10-week trial involving
 more than 40 men and women demonstrated that the group that consumed daily supplements
 of sucrose (for 28% of total energy) increased body weight and fat mass, by 1.6 kg for men
 and 1.3 kg for women, while the group that was supplemented with artificial sweeteners lost
 weight—1.0 kg for men and 0.3 kg for women.<sup>63</sup>



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<sup>[2007] (</sup>discussing James, J., et al., "Preventing childhood obesity by reducing consumption of carbonated drinks: cluster randomized controlled trial," *BJM*, Vol. 328, 1237 (April 27, 2004)).

<sup>&</sup>lt;sup>63</sup> Raben, A., et al., "Sucrose compared with artificial sweeteners: different effects on ad
<sup>63</sup> Raben, A., et al., "Sucrose compared with artificial sweeteners: different effects on ad
<sup>63</sup> Raben, A., et al., "Sucrose compared with artificial sweeteners: different effects on ad
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<sup>63</sup> Raben, A., et al., "Sucrose compared with artificial sweeteners."
<sup>63</sup> Raben, A., et al., "Sucrose compared with artificial sweeteners."
<sup>64</sup> Raben, Sucrose vs. Artificial Sweeteners."

**FIGURE 2.** Mean ( $\pm$  SEM) changes in body weight, fat mass, and fatfree mass during an intervention in which overweight subjects consumed supplements containing either sucrose ( $\bullet$ ; n = 21) or artificial sweeteners ( $\Delta$ ; n = 20) daily for 10 wk. The diet × time interactions were significant for changes in body weight (P < 0.0001) and fat mass (P < 0.05) by analysis of variance with Tukey's post hoc tests. At specific time points for changes in body weight and fat mass, there were significant differences between the sucrose and sweetener groups: "P < 0.05, "P < 0.001, and ""P < 0.0001 (general linear model with least squares means and adjustment for multiple comparisons).

84. In another, 3-week study, researchers gave normal-weight subjects 1150 grams of soda per day, sweetened with either aspartame or HFCS. The experiment found that drinking artificially-sweetened soda reduced calorie intake and body weight of men, while drinking HFCS-sweetened soda significantly increased calorie intake and body weight of both sexes, as demonstrated in the chart below.<sup>64</sup>

Body weight change (kg)

FIG 1. Changes in body weight during 3-wk periods when subjects drank 1150 g/d of soda sweetened with aspartame (APM), an equal weight of soda sweetened with high-fructose corn syrup (HFCS), or had no experimental manipulation (no soda). \*p < 0.05 relative to weight gain in no-soda period.

<sup>64</sup> Tordoff, M.G., et al., "Effect of drinking soda sweetened with aspartame or high-fructose corn syrup on food intake and body weight," *American Journal of Clinical Nutrition*, Vol. 51, 963-69 (1990).

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### F. Excess Sugar Consumption Causes Inflammation

85. Inflammation has been associated with type 2 diabetes, myocardial infarction, and stroke, as well as weight gain and obesity.<sup>65</sup>

86. A 10-week study comparing a group whose sucrose intake was increased by 151% to a group whose intake was decreased by 42% showed the former's blood concentration of the biological markers for inflammation, haptoglobin, transferrin, and C-reactive protein, increased by 13%, 5%, and 6%, respectively, while the latter group's concentrations decreased by 16%, 2%, and 26% respectively.<sup>66</sup>

In a prospective, randomized, controlled crossover trial, 29 subjects were 9 87. studied over six 3-week interventions in which they either consumed various amounts of 10 fructose, glucose, or sucrose, or received dietary advice to consume low amounts of fructose. 11 12 The study showed LDL particle size reducing (associated with atherosclerosis) by 0.51 nm 13 after high-fructose intake (80 grams per day), and by 0.43 nm after high-sucrose intake (also 80 grams per day). It also found significant increases in fasting glucose and C-reactive 14 protein, leading the authors to conclude that the "data show potentially harmful effects of 15 low to moderate consumption of SSBs on markers of cardiovascular risk such as LDL 16 particles, fasting glucose, and [C-reactive protein] within just 3 wk in healthy young men, 17 which is of particular significance for young consumers."67 18

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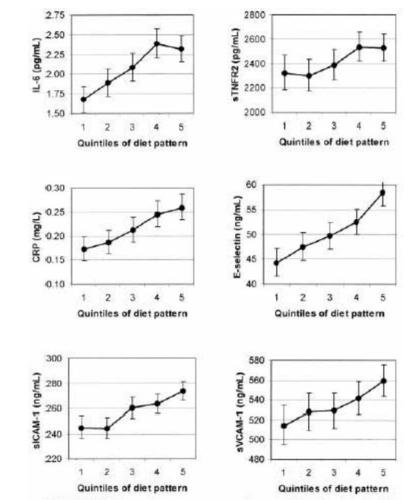
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<sup>26</sup> <sup>66</sup> Sorensen, Inflammatory Markers, *supra* n.65.

<sup>67</sup> Aeberli, I., et al., "Low to moderate sugar-sweetened beverage consumption impairs
glucose and lipid metabolism and promotes inflammation in healthy young men: a randomized controlled trial," *American Journal of Clinical Nutrition*, Vol. 94, 479-85 (2011).

<sup>&</sup>lt;sup>65</sup> Sorensen, L.B., et al., "Effect of sucrose on inflammatory markers in overweight humans," *American Journal of Clinical Nutrition*, Vol. 82, 421-27 (2005) (citations omitted)
<sup>65</sup> Inflammation and Cardiovascular Disease: Application to Clinical and Public Health
Practice, A Statement for Healthcare Professionals From the Centers for Disease Control and
Prevention and the American Heart Association," *Circulation*, Vol. 107, 499-511 (2003).

88. In a nested case-control study of 656 cases of type 2 diabetes and 694 controls
 from the Nurses Study, researchers identified a dietary pattern strongly related to
 inflammatory markers, which was high in sugar-sweetened soft drinks, showing linear trends
 across quintiles of dietary pattern for six inflammation markers.



**FIGURE 1.** Geometric mean concentrations and 95% CIs of interleukin 6 (IL-6), soluble tumor necrosis factor  $\alpha$  receptor 2 (sTNFR2), C-reactive protein (CRP), E-selectin, soluble intracellular cell adhesion molecule 1 (sICAM-1), and soluble vascular cell adhesion molecule 1 (sVCAM-1) by quintiles of diet pattern score adjusted for age, BMI (9 categories), physical activity (quintiles), family history of diabetes, smoking (never, past, current, or missing), postmenopausal hormone use (never, ever, or missing), energy intake (quintiles), and fasting status. The comparison between quintile 5 and quintile 1 was significant for all biomarkers, P < 0.05. Quintile cutoffs were based on distributions in controls.

## G. Excess Sugar Consumption Causes High Blood Triglycerides and Abnormal Cholesterol Levels

89. Fructose facilitates the biochemical formation of triacylglycerols more efficiently than does glucose.<sup>68</sup> This is because fructose metabolism in the liver converts the fructose to fructose-1-phosphate, which readily becomes a substrate for the backbone of the triglyceride molecule.<sup>69</sup> As compared to starches, sugars—particularly sucrose and fructose—tend to increase serum triacylglycerol concentrations by about 60%.<sup>70</sup>

8 Cholesterol is a waxy, fat-like substance found in the body's cells, used to make 90. hormones, bile acids, vitamin D, and other substances. The human body manufactures all 9 10 the cholesterol it requires, which circulates in the bloodstream in packages called lipoproteins. Excess cholesterol in the bloodstream can become trapped in artery walls, 11 12 building into plaque and narrowing blood vessels, making them less flexible, a condition 13 called atherosclerosis. When this happens in the coronary arteries, it restricts oxygen and nutrients to the heart, causing chest pain or angina. When cholesterol-rich plaques in these 14 15 arteries burst, a clot can form, blocking blood flow and causing a heart attack.

91. Most blood cholesterol is low-density lipoprotein, or LDL cholesterol, which is
sometimes called "bad" cholesterol because it carries cholesterol to the body's tissues and
arteries, increasing the risk of heart disease. High-density lipoprotein, or HDL cholesterol,
is sometimes called "good" cholesterol because it removes excess cholesterol from the
cardiovascular system, bringing it to the liver for removal. Thus, a low level of HDL
cholesterol increases the risk of heart disease.

22 92. Diet affects blood cholesterol. For example, the body reacts to saturated fat by23 producing LDL cholesterol.

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25 <sup>68</sup> Elliot, Fructose & Insulin Resistance, *supra* n.22.

28 <sup>70</sup> Fried, Hypertriglyceridemia, *supra* n.28, at 873S.

 <sup>&</sup>lt;sup>69</sup> Bray, G.A., "Soft Drinks and Obesity: The Evidence," *CMR e-Journal*, Vol. 2, Issue, 2, 10-14, at 13 (Oct. 2009).

1 93. When the liver is overwhelmed by large doses of fructose, it will convert excess to fat, which is stored in the liver and then released into the bloodstream, contributing to key 2 3 elements of metabolic syndrome, like high blood fat and triglycerides, high total cholesterol, and low HDL "good" cholesterol.71 4

5 A study of more than 6,000 participants in the Framingham Heart Study found 94. those who consumed more than 1 soft drink per day had a 25% greater risk of 6 7 hypertriglyceridemia, and 32% greater risk of low HDL cholesterol than those who 8 consumed less than 1 soft drink per day.<sup>72</sup>

A systematic review and meta-analysis of 37 randomized controlled trials 9 95. 10 concerning the link between sugar intake and blood pressure and lipids found that higher sugar intakes, compared to lower sugar intakes, significantly raised triglyceride 11 concentrations, total cholesterol, and low density lipoprotein cholesterol.<sup>73</sup> 12

96. 13 A cross-sectional study among more than 6,100 U.S. adults from the NHANES 1999-2006 data were grouped into quintiles for sugar intake as follows: (1) less than 5% of 14 15 calories consumed from sugar, (2) 5% to less than 10%, (3) 10% to less than 17.5%, (4) 17.5% to less than 25%, and (5) 25% or more. These groups had the following adjusted mean 16 HDL levels (because HDL is the "good" cholesterol, higher levels are better): 58.7 mg/dL, 17 57.5, 53.7, 51.0, and 47.7. Mean triglyceride levels were 105 mg/dL, 102, 111, 113, and 114. 18 Mean LDL levels were 116 mg/dL, 115, 118, 121, and 123 among women, with no 19 20 significant trend among men. Consumers whose sugar intake accounted for more than 10% of calories had a 50% - 300% higher risk of low HDL levels compared to those who 21

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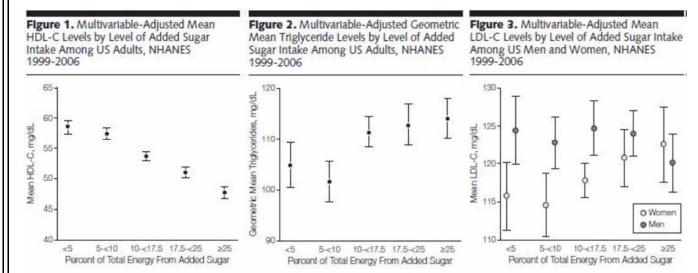
<sup>72</sup> Dhingra, Cardiometabolic Risk, *supra* n.31.

<sup>73</sup> Te Morenga, L., et al., "Dietary sugars and cardiometabolic risk: systematic review and meta-analyses of randomized controlled trials on the effects on blood pressure and lipids," 28 American Journal of Clinical Nutrition, Vol. 100, No. 1, 65-79 (May 7, 2014).

<sup>&</sup>lt;sup>71</sup> Te Morenga, Dietary Sugars & Body Weight, *supra* n.27.

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consumed less than 5% of calories from sugar. Likewise, high-sugar consumers had greater risk of high triglycerides. All relationships were linear as demonstrated in the charts below.<sup>74</sup>



97. One experimental study showed that, when a 17% fructose diet was provided to healthy men, they showed an increase in plasma triacylglycerol concentrations of 32%.<sup>75</sup> 98. Another 10-week experimental feeding study showed that those who were fed 25% of their energy requirements as fructose experienced increases in LDL cholesterol, small dense LDL cholesterol, and oxidized LDL cholesterol, as well as increased concentrations of triglycerides and total cholesterol, while those fed a 25% diet of glucose did not experience the same adverse effects.<sup>76</sup>

<sup>76</sup> Stanhope, K.L., et al., "Consuming fructose-sweetened, not glucose-sweetened, beverages increases visceral adiposity and lipids and decreases insulin sensitivity in overweight/obese humans," *The Journal of Clinical Investigation*, Vol. 119, No. 5, 1322-34 (May 2009).

 <sup>&</sup>lt;sup>74</sup> Welsh, J.A., et al., "Caloric Sweetener Consumption and Dyslipidemia Among US Adults," *Journal of the American Medical Association*, Vol. 303, No. 15, 1490-97 (April 21, 2010).
 <sup>75</sup> Bantle, J.P., et al., "Effects of dietary fructose on plasma lipids in healthy subjects," *American Journal of Clinical Nutrition*, Vol. 72, 1128-34 (2000).

99. In a cross-sectional study of normal weight and overweight children aged 6-14,
 researchers found that "the only dietary factor that was a significant predictor of LDL particle
 size was total fructose intake."<sup>77</sup>

## H. Excess Sugar Consumption is Associated with Hypertension

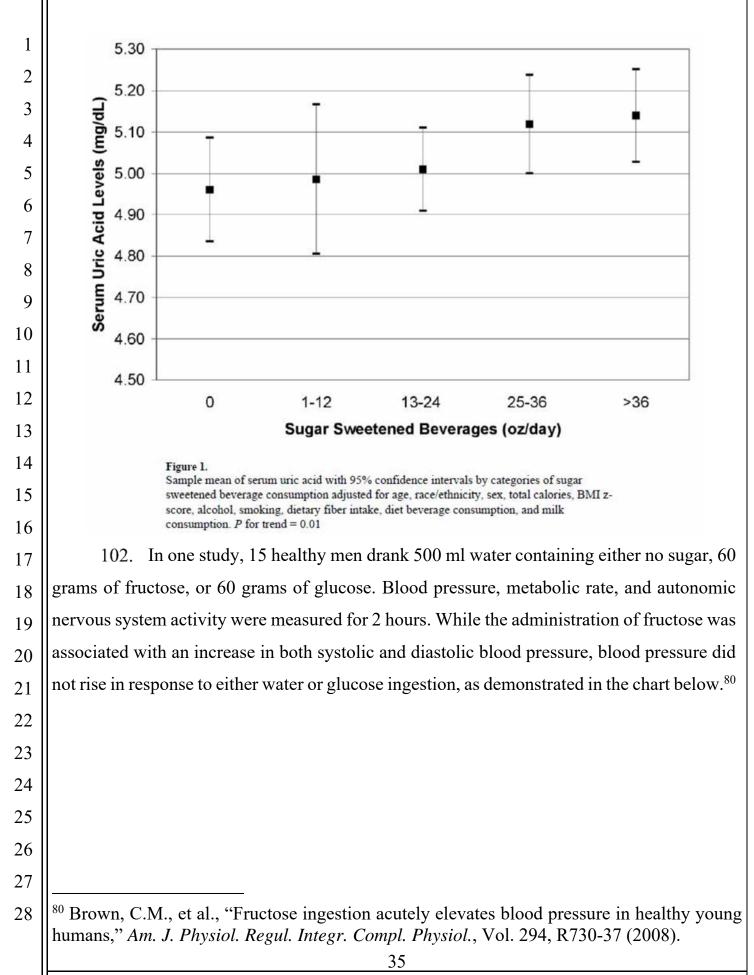
100. A study of more than 6,000 participants in the Framingham Heart Study found those who consumed more than 1 soft drink per day had a 22% greater incidence, and an 18% greater risk of high blood pressure than those who consumed less than 1 soft drink per day.<sup>78</sup>

9 101. An analysis of the NHANES data for more than 4,800 adolescents also showed
10 a positive, linear association between sugar-sweetened beverages and higher systolic blood
11 pressure, as well as corresponding increases in serum uric acid levels.<sup>79</sup>

 <sup>&</sup>lt;sup>77</sup> Aeberli, I., et al., "Fructose intake is a predictor of LDL particle size in overweight schoolchildren," *American Journal of Clinical Nutrition*, Vol. 86, 1174-78 (2007).
 <sup>78</sup> Dhingra, Cardiometabolic Risk, *supra* n.31.

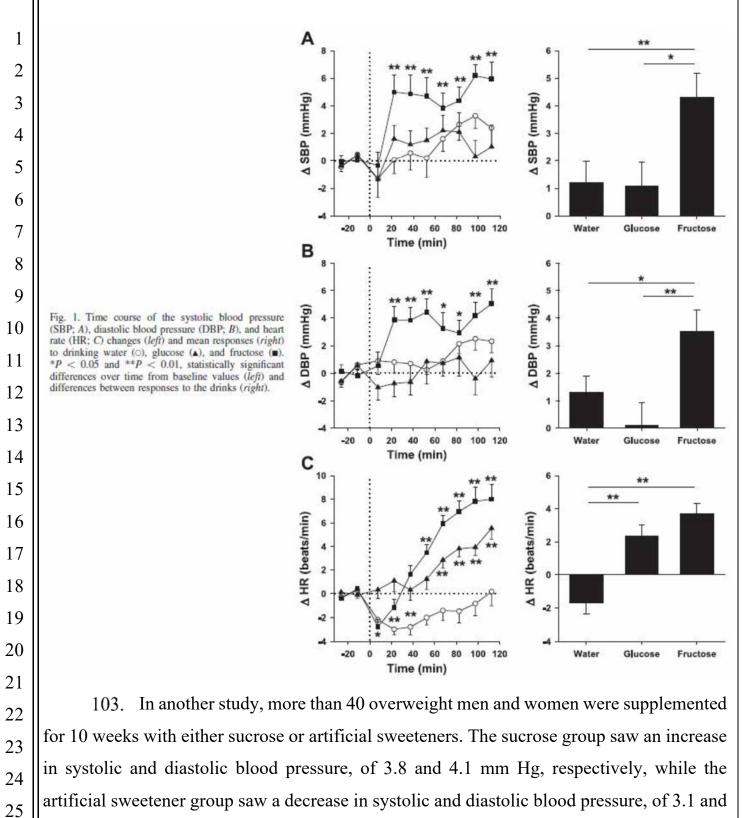
<sup>&</sup>lt;sup>79</sup> Nguyen, Serum Uric Acid, *supra* n.23.

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1.2 mm Hg, respectively.<sup>81</sup>

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<sup>81</sup> Raben, Sucrose vs. Artificial Sweeteners, *supra* n.63.

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1 104. Another study took a variety of approaches to measuring the association 2 between sugar intake and blood pressure, concluding that an increase of 1 serving of sugar-3 sweetened beverages per day (*i.e.*, 140-150 calories, and 35-37.5 grams of sugar) was 4 associated with systolic/diastolic blood pressure differences of +1.6 and +0.8 mm Hg (and 5 +1.1/+0.4 mm Hg with adjustment for height and weight), while an increase of 2 servings 6 results in systolic/diastolic blood pressure differences of +3.4/+2.2, demonstrating that the 7 relationship is direct and linear.<sup>82</sup>

# I. Excess Sugar Consumption is Associated with Alzheimer's Disease, Dementia, and Cognitive Decline

10 105. In a study of over 2,000 participants over 6.8 years, researchers found that
11 higher average glucose levels within the preceding 5 years (115 mg/dL compared to 100
12 mg/dL) were related to an 18% increased risk of dementia among those without diabetes.
13 For those with diabetes, higher average glucose levels (190 mg/dL compared to 160 mg/dL)
14 were related to a 40% increased risk of dementia.<sup>83</sup>

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15 106. "To evaluate a possible association between fructose mediated metabolic changes and cognitive behavior," researchers "assessed the correlation of serum triglyceride and insulin resistance levels with memory," and "found a positive correlation between serum triglyceride levels and insulin resistance index . . . , which indicates that increased serum triglyceride levels may contribute to increase[d] insulin resistance . . . ." And researchers

- <sup>82</sup> Brown, I.J., et al., "Sugar-Sweetened Beverage, Sugar Intake of Individuals, and Their Blood Pressure: International Study of Macro/Micronutrients and Blood Pressure," *Hypertension*, Vol. 57, 695-701 (2011).
- <sup>27</sup>
  <sup>83</sup> Crane, P.K, et al., "Glucose Levels and Risk of Dementia," *New England Journal of Medicine*, Vol. 369, No. 6, 540-48 (2013).

"found that the latency time varied in proportion to the insulin resistance . . . , which suggests that memory performance may rely on levels of insulin resistance . . . ."<sup>84</sup>

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## J. Excess Sugar Consumption is Linked to Some Cancers

107. In a population-based case-control study involving 424 cases and 398 controls, women in the highest quartile of added sugar intake had an 84% greater risk of endometrial cancer.<sup>85</sup> Similarly, in a study of patients with stage 3 colon cancer, those in the highest quintile of glycemic load experienced worsening in disease-free survival of approximately 80% compared to those in the lowest quintile.<sup>86</sup>

9 108. A population based case-control study on Malaysian women found a
10 significant, two-fold increased risk of breast cancer among premenopausal and
11 postmenopausal women in the highest quartile of sugar intake.<sup>87</sup>

12 109. A prospective epidemiological study of nearly 45,000 cancer cases among
13 436,000 participants aged 50-71, found added sugars were positively associated with risk of
14 esophageal adenocarcinoma; added fructose was associated with risk of small intestine
15 cancer; and all investigated sugars were associated with increased risk of pleural cancer.<sup>88</sup>

<sup>&</sup>lt;sup>84</sup> Agrawal, R., et al., "Metabolic syndrome' in the brain: deficiency in omega-3 fatty acid
exacerbates dysfunctions in insulin receptor signaling and cognition," *Journal of Physiology*,
Vol. 590, No. 10, 2485-99, at 2489 (2012).

 <sup>&</sup>lt;sup>85</sup> King, M.G., et al., "Consumption of Sugary Foods and Drinks and Risk of Endometrial Cancer," *Cancer Causes Control*, Vol. 24, No. 7, 1427-36 (July 2013).

<sup>&</sup>lt;sup>86</sup> Meyerhardt, J.A., et al. "Association of dietary patterns with cancer recurrence and survival in patients with stage III colon cancer," *Journal of the American Medical Association*, Vol. 298, 754-64 (2007).

<sup>&</sup>lt;sup>87</sup> Sulaiman, S., et al., "Dietary carbohydrate, fiber and sugar and risk of breast cancer according to menopausal status in Malaysia," *Asian Pacific Journal of Cancer Prevention*, Vol. 15, 5959 (2014).

<sup>&</sup>lt;sup>27</sup>
<sup>88</sup> Tasevska, N., et al., "Sugars in diet and risk of cancer in the NIH-AARP Diet and Health
<sup>80</sup> Study," *International Journal of Cancer*, Vol. 130, No. 1, 159-69 (Jan. 1, 2012)

# K. Based on the Scientific Evidence, Authoritative Scientific and Health Organizations Recommend Restricting Added Sugar Consumption to Below 5% or 10% of Daily Calories

110. Based on the scientific research, the American Heart Association recommends restricting added sugar to 5% of calories.<sup>89</sup> Based on the average caloric needs, this equates to 12 grams for children 4 to 8 years old, up to 25 grams for children up to 18 years old, 25 grams for women, and 38 grams for men.

8 111. The United Kingdom's dietary guidelines recommend "intake of free sugars\*<sup>90</sup>
9 should not exceed 5% of total dietary energy for age groups from 2 years upwards."<sup>91</sup>

10 112. The World Health Organization recommends that no more than 10% of an
adult's calories—and ideally less than 5%—should come from added sugar or from natural
sugars in honey, syrups, and fruit juice.<sup>92</sup>

13 113. The Food and Drug Administration recently adopted the United States
14 Department of Agriculture's daily reference value of 50 grams of added sugar, or 10% of
15 calories based on a 2,000-calorie diet. 81 Fed. Reg. 33742, 33820 (May 27, 2016). While
16 the FDA acknowledged the AHA and WHO recommendations to keep added sugars below
17 5% of calories, it set the DRV at 50 grams or 10% because this was "more realistic
18 considering current consumption of added sugars in the United States as well as added sugars

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21 <sup>90</sup> Defined as sugars added to food, naturally present in honey, syrup and fruit juice.

<sup>22</sup> <sup>91</sup> England's Department of Health, "Sugar Recommendations Department of Health,
 <sup>23</sup> England," (Oct. 2015)., available at
 <sup>41</sup> https://ec.aurona.au/health/sites/health/files/nutrition\_physical\_activity/docs/ey\_201510

https://ec.europa.eu/health/sites/health/files/nutrition\_physical\_activity/docs/ev\_20151028\_
 co07\_en.pdf.

<sup>25</sup> 9<sup>2</sup> See World Health Organization, "Sugars intake for adult and children: Guideline" (March
4, 2014), available at http://www.who.int/nutrition/publications/guidelines/sugars\_intake/en
(Based on scientific evidence, recommending adults and children reduce daily intake of free
sugars to less than 10% of total energy intake and noting that "[a] further reduction to below
5% or roughly 25 grams (6 teaspoons) per say would provide additional health benefits.").

<sup>&</sup>lt;sup>89</sup> See AHA Scientific Statement, supra n.10.

in the food supply." *Id.* at 33,849. Nevertheless, the FDA's rulemaking was based, in part,
on the 2015 Dietary Guidelines Advisory Committee's "food pattern analysis," which—
consistent with the AHA and WHO recommendations— "demonstrate[d] that when added
sugars in foods and beverages exceeds 3% to 9% of total calories . . . a healthful food pattern
may be difficult to achieve . . . . "<sup>93</sup>

## **V.** Clif's Marketing and Sale of the High-Sugar "Nutrition" Bars

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7 114. Clif is well aware that consumers prefer healthful foods and are willing to pay
8 more for, and purchase more often, products marketed and labeled as being healthy. For
9 instance, Nielsen's 2015 Global Health & Wellness Survey found that "88% of those polled
10 are willing to pay more for healthier foods."<sup>94</sup>

11 115. Clif employs a strategic marketing campaign intended to appeal to consumers
12 interested in healthful foods in order to increase sales and profits, despite that the high-sugar
13 bars are detrimental to health.

14 116. On its website, Clif claims to "believe in creating a healthier . . . food system"<sup>95</sup>
15 and states that "[o]ffering nutritious food is what we do, and like you, we care about what
16 we put in our bodies."<sup>96</sup>

<sup>96</sup> Clif, Frequently Asked Questions, *What Procedures Do You Have In Place In Regards To Food Safety?, available at* http://www.clifbar.com/faq (last visited Nov. 26, 2017).

<sup>21 &</sup>lt;sup>93</sup> U.S. Department of Agriculture, "Scientific Report of the 2015 Dietary Guidelines Advisory Committee" (February 2015), Ch. 6 p.26.

<sup>&</sup>lt;sup>22</sup>
<sup>94</sup> Nancy Gagliardi, Forbes, Consumers Want Healthy Foods--And Will Pay More For
<sup>23</sup> Them (Feb. 18, 2015) (citing Neilson, 2015 Global Health & Wellness Survey, at 11 (Jan. 2015)).

 <sup>25 || &</sup>lt;sup>95</sup> Clif, Organic For Good, available at http://www.clifbar.com/article/organic-for-good
 26 || (last visited Nov. 26, 2017).

117. Clif also boasts about having a "dedicated food safety" staff that makes sure "our products are nutritious."<sup>97</sup>

3 118. It attempts to distinguish its bars from competitors by claiming that "Clif Bars
4 are different from other bars" because they are "crafted in a way that is good for people."<sup>98</sup>

119. To promote its Kids Bars, Clif claims, "We know it's hard to get kids to eat the
right snacks. But you can feel good knowing that all our CLIF Kid recipes come in kidfriendly flavors-made from nutritious and organic ingredients-to keep them going, growing
and exploring."<sup>99</sup>

9 120. In its attempts to portray its Products as healthful, Clif even created a "CLIF
10 KID NUTRITION PACT," which states: "We believe that nutrition isn't just about what you
11 put in your kids' bodies, but also what you keep out. The CLIF Kid Nutrition Pact is our
12 promise to provide delicious snacks made of all the good stuff (and none of the bad stuff)
13 active kids need to grow, develop, and thrive."<sup>100</sup>

121. Clif has had great success using its health and wellness marketing strategy.
According to its CEO, "Clif Bar holds 33 percent of the market share in the health and
lifestyle bar category, which is expected to grow to \$6.2 billion by 2018."<sup>101</sup>

122. As described in more detail below, Clif employs claims on the labeling and
packaging of the high-sugar bars (identified specifically in paragraphs 128, 135, 142, 149,
157) meant to appeal to consumers interested in healthful foods, but that are deceptive

<sup>97</sup> Id.

<sup>98</sup> Clif, Frequently Asked Questions, *How Are Clif Bars Different From Other Bars?*, *available at* http://www.clifbar.com/faq (last visited Nov. 26, 2017).

<sup>99</sup> Clif, Clif Kid, *available at* http://www.clifbar.com/faq (last visited Nov. 26, 2017).
 <sup>100</sup> Id.

<sup>101</sup> Renee Frojo, San Francisco Business Times, *Clif Bar CEO has company revenue and employee count growing, available at* 

https://www.bizjournals.com/sanfrancisco/news/2016/11/10/most-admired-kevin-clearyclif-bar-revenue-growth.html (last visited Nov. 26, 2017).

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because they are incompatible with the dangers of the excessive sugar consumption to which the Products contribute.

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## A. The high-sugar Clif Kid ZBars

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123. Clif sells four varieties of Kid ZBars: Clif Kid ZBars "Original", Clif Kid ZBars "Filled", and Clif Kid ZBars "Protein", and Clif Kid ZBars "Fruit and Veggie".

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## Clif Kid ZBars "Original"

7 124. Clif Kid Original ZBars are sold, or have been sold, in at least six flavors:
8 Chocolate Brownie, Chocolate Chip, Iced Lemon Cookie, Iced Oatmeal Cookie, S'mores,
9 and Pirate Chocolate Chip.

10 125. Each Original ZBar is 36 grams regardless of flavor, with either 130 or 140 total
11 calories depending on flavor.

12 126. As shown in Appendix 1, Each Original ZBar contains between 11 and 12
13 grams of added sugar, with between 34 and 37 percent of calories coming from added sugar.
14 This means a single Original ZBar contains up to 100 percent of the AHA's Maximum
15 Recommended Daily Intake (DI) of Added Sugars for children 4-8 years old and 48 percent
16 for kids up to 18.

17 127. The amount of total calories, total sugar, added sugar, and percent of calories
18 from added sugar for a serving of each flavor of the high-sugar Clif Kid Original ZBars is
19 set forth in the table below.

	Total	Total	Added	% Calories
	Calories	Sugar	Sugar	From Added
				Sugar
Chocolate Brownie	130	11g	11g	34%
Chocolate Chip	130	12g	12g	37%
Pirate Chocolate Chip	130	12g	12g	37%
Iced Lemon Cookie	140	12g	12g	34%
Iced Oatmeal Cookie	140	12g	12g	34%
S'Mores	130	12g	12g	37%

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128. Despite that the Original ZBars are loaded with added sugar, Clif prominently 1 labels the bars with the following claims suggesting they are healthy or conducive to good 2 3 health and physical well-being:

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"Nourishing Kids in Motion,"

"No High-Fructose Corn Syrup"

a.

b.

"In raising our family, finding nutritious on-the-go snacks for our kids c. wasn't easy. That's why we created Clif Kid - wholesome, delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

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"CLIF Kid Zbar['s] blend of carbs, fiber, protein, and fat gives kids d. energy so they can keep Zipping and Zooming along."

129. These claims convey that the Clif Kid ZBars Original are healthy or are 11 12 conducive to good health and physical well-being, which is misleading because that message is incompatible with the dangers of excessive sugar consumption to which Original Zbars 13 14 contribute.

15 130. The boxes and labels of the each flavor of the high-sugar Clif Kid ZBars Original are substantially similar and representative exemplars illustrating the challenged 16 claims are pictured below. 17

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## 2. Clif Kid ZBars "Filled"

131. Clif Kid ZBars Filled are currently sold in at least three flavors: Double Peanut Butter, Chocolate Peanut Butter, and Apple Almond Butter.

132. Each Clif Kid ZBar Filled is 30 grams, regardless of flavor, with either 130 or 140 total calories depending on flavor.

133. As shown in Appendix 1, each Filled Bar contains between 6 and 7 grams of added sugar with between 17 and 22 percent of calories coming from added sugar. This means a single Clif Kid ZBar Filled contains up to 58 percent of the AHA's Maximum Recommended Daily Intake (DI) of Added Sugars for children 4-8 years old and 28 percent for kids up to 18.

134. The amount of total calories, total sugar, added sugar, and percent of calories from added sugar for a serving of each flavor of the high-sugar Clif Kid ZBars Filled is set forth in the table below.

	Total Calories	Total Sugar	Added Sugar	% Calories From Added
				Sugar
Chocolate Peanut Butter	130	7g	7g	22%
Double Peanut Butter	140	6g	6g	17%
Apple Almond Butter	140	7g	7g	20%

9 135. Despite that the Clif Kid ZBars Filled are loaded with added sugar, Clif
10 prominently labels the bars with the following claims suggesting the products are healthy or
11 conducive to good health and physical well-being:

- "Nourishing Kids in Motion,"
- b. "No High-Fructose Corn Syrup"

a.

- c. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid delicious snacks made with organic ingredients to keep kids going, growing, and exploring"
- d. "[A] blend of nutrients for energy to help your kid Zipping and Zooming
  along."

19 136. These claims convey that the Clif Kid ZBars Filed are healthy or are
20 conducive to good health and physical well-being, which is misleading because that message
21 is incompatible with the dangers of excessive sugar consumption to which they contribute.

137. The boxes and labels of the each flavor of the high-sugar Clif Kid ZBars
Filled are substantially similar and representative exemplars illustrating the challenged
claims are pictured below.

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## 3. Clif Kid ZBars "Protein"

138. Clif Kid ZBars Protein are currently sold in at least three flavors: Chocolate Chip, Peanut Butter Chocolate, and Chocolate Mint.

139. Each Clif Kid ZBar Protein is 36g with 130 total calories, regardless of flavor.140. As shown in Appendix 1, each Clif Kid ZBar Protein contains between 8 and 9

grams of added sugar with between 25 and 28 percent of calories coming from added sugar. This means a single Clif Kid ZBar Protein contains up to 75 percent of the AHA's Maximum Recommended Daily Intake (DI) of Added Sugars for children 4-8 years old and 36 percent for kids up to 18.

141. The amount of total calories, total sugar, added sugar, and percent of calories from added sugar for a serving of each flavor of the high-sugar Clif Kid ZBars Protein is set forth in the table below.

	Total Calories	Total Sugar	Added Sugar	% Calories Added Sugar
Chocolate Chip	130	9g	9g	28%
Chocolate Mint	130	8g	8g	25%
Peanut Butter Chocolate	130	8g	8g	25%

142. Despite that the ZBars Protein are loaded with added sugar, Clif prominently labels the bars with the following claims suggesting the products are healthy:

a. "Nourishing Kids in Motion,"

b. "No High-Fructose Corn Syrup"

c. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid –delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

d. "CLIF Kid Zbar Protein['s] balanced blend of protein, whole grains, vitamins, and minerals helps provide nutritional building blocks for kids' growing bodies . . . ."

17 143. These claims convey that the Clif Kid ZBars Protein are healthy or are
18 conducive to good health and physical well-being, which is misleading because that message
19 is incompatible with the dangers of excessive sugar consumption to which they contribute.

144. The boxes and labels of the each flavor of the high-sugar Clif Kid ZBars Protein
 are substantially similar and representative exemplars illustrating the challenged claims are
 pictured below.

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## 4. Clif Kid ZBar "Fruit and Veggie"

19 145. Clif Kid ZBar Fruit and Veggie have been sold in at least three flavors: Purple
20 Power, Awesome Orange, and Keen Green.

21 146. Each Clif Kid ZBar Fruit and Veggie is 33g with 130 total calories, regardless
22 of flavor.

147. As shown in Appendix 1, each Clif Kid ZBar Fruit and Veggie contains 8 grams
of added sugar with 25 percent of calories coming from added sugar. This means a single
Clif Kid ZBar Fruit and Veggie contains up to 67 percent of the AHA's Maximum
Recommended Daily Intake of Added Sugars for children 4-8 years old and 32 percent for
kids up to 18.

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148. The amount of total calories, total sugar, added sugar, and percent of calories from added sugar for a serving of each flavor of the high-sugar Clif Kid ZBars Protein is set forth in the table below.

	Total	Total	Added	% Calories
	Calories	Sugar	Sugar	Added Sugar
Purple Power	130	9g	8g	25%
Awesome Orange	130	9g	8g	25%
Keen Green	130	9g	8g	25%

149. Despite that the ZBars Fruit and Veggie are loaded with added sugar, Clif prominently labels the bars the following claims suggesting the products are healthy:

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- "Nourishing Kids in Motion,"
- b. "No High-Fructose Corn Syrup"

c. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid – delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

d. "CLIF Kid Zbar Fruit + Veggie . . . is crafted with a blend of whole
 grains, vitamins & minerals, fruit juice concentrates, and vegetable powders to give
 kids energy so they can keep Zipping and Zooming along."

19 150. These claims convey that the Clif Kid Fruit and Veggie ZBars are healthy or
20 are conducive to good health and physical well-being, which is misleading because that
21 message is incompatible with the dangers of excessive sugar consumption to which they
22 contribute.

23 151. The boxes and labels of each flavor of the high-sugar Clif Kid Fruit and Veggie
24 ZBars are substantially similar and representative exemplars illustrating the challenged
25 claims are pictured below.



IN RAISING OUR FAMILY, FINDING NUTRITIOUS ON-THE-GO SNACKS FOR OUR KIDS WASN'T EASY. THAT'S WHY WE CREATED CLIF KID® - DELICIOUS SNACKS MADE WITH ORGANIC INGREDIENTS TO KEEP KIDS GOING, GROWING, AND EXPLORING. - KIT & GARY, PAKENTS AND CO-OMMERS OF CLIFBAR & CORMAN

# NOURISHING KIDS . MOTION

 MADE WITH ORGANIC INGREDIENTS
 NON-GMO
 NO HIGH-FRUCTOSE CORN SYRUP
 NO ARTIFICIAL FLAVORS
 ALL COLORS FROM FRUITS AND VEGETABLES

Connect with us at clifkid.com

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## B. The high-sugar "Classic" Clif Bars

152. The "Classic" Clif Bars have been sold in at least 21 flavors: Apple Pear Strudel, Apricot, Berry Pom, Blueberry Crisp, Carrot Cake, Chocolate Almond Fudge, Chocolate Brownie, Chocolate Chip Peanut Crunch, Chocolate Chip, Coconut Chocolate Chip, Cool Mint, Crunchy Peanut Butter, Hot Chocolate, Iced Gingerbread, Nuts & Seeds, Oatmeal Raisin Walnut, Peanut Butter Banana with Dark Chocolate, Peanut Toffee Buzz, Sierra Trail Mix, Spiced Pumpkin Pie, and White Chocolate Macadamia Nut.

153. Each Classic Bar, regardless of flavor, is 68 grams, with total calories varying by flavor between 240 and 270.

154. The primary ingredient in every Classic Bar is added sugar from Brown Rice Syrup, but Clif uses as many as 13 types if added sugar in its Classic Bars.

155. As shown in Appendix 1, Classic Bars contain between 17 and 22 grams of added sugar, depending on flavor. This means a single Classic Clif Bar contains as much as

88 percent of the AHA's Maximum Recommended Daily Intake (DI) of Added Sugars for
 women, 58 percent for men, 183 percent for children 4-8 years old, and 88 percent for kids
 up to 18 years old.

156. The amount of total calories, total sugar, added sugar, and percent of calories from added sugar for a serving of each flavor of the high-sugar Classic Clif Bars is set forth in the table below.

	Total	Total	Added	% Calories From
	Calories	Sugar	Sugar	Added Sugar
Apple Pear Strudel	240	22g	19g	31%
Apricot	240	23g	19g	32%
Berry Pom	250	22g	19g	30%
Blueberry Crisp	250	22g	19g	30%
Carrot Cake	250	25g	22g	34%
Chocolate Almond Fudge	260	20g	18g	28%
Chocolate Brownie	250	21g	19g	30%
Chocolate Chip Peanut Crunch	260	20g	17g	26%
Chocolate Chip	250	21g	19g	30%
Coconut Chocolate Chip	260	20g	17g	26%
Cool Mint	250	20g	18g	29%
Crunchy Peanut Butter	260	19g	17g	26%
Hot Chocolate	250	22g	19g	30%
Iced Gingerbread	250	23g	20g	32%
Nuts & Seeds	270	18g	17g	25%
Oatmeal Raisin Walnut	250	21g	17g	27%
Peanut Butter Banana with Dark Chocolate	260	21g	19g	29%
Peanut Toffee Buzz	250	21g	18g	29%
Sierra Trail Mix	250	22g	19g	30%
Spiced Pumpkin Pie	250	23g	19g	30%
White Chocolate Macadamia Nut	260	21g	17g	26%

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157. Despite that the Classic Bars are loaded with added sugar, Clif prominently labels the bars with the claim:

a. "Nutrition for Sustained Energy"

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158. This claim conveys that the Classic Bars are healthy or are conducive to good health and physical well-being, which is misleading because that message is incompatible with the dangers of excessive sugar consumption to which the Classic Bars contribute.

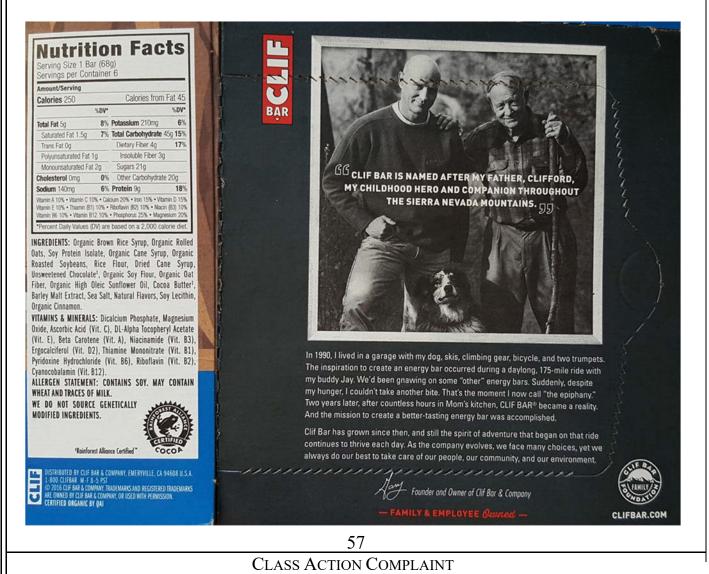
5 159. This claim is particularly likely to mislead consumers when read in context of other labeling statements. For example, despite that the primary ingredient in each Classic 6 7 Bar is brown rice syrup—an added sugar—Clif uses additional front of the label statements to emphasize that the Classic Bars are made with other ingredients consumers associate with 8 being healthy. For example, Clif's chocolate chip flavored Classic Bar emphasizes that it is 9 "Made with Organic Rolled Oats."<sup>102</sup> By singling out rolled oats as the only ingredient to 10 highlight on the front of the packaging or labeling, an ingredient consumers associate with 11 12 being healthy, Clif reinforces the health message created by the "Nutrition for Sustained Energy" claim and distracts from the Classic Bars added sugar content. This message is 13 misleading because it is incompatible with the dangers of excessive sugar consumption to 14 15 which the Classic Bars contribute.

16 160. The boxes and labels of the high-sugar Classic Bars are substantially similar for
17 each flavor and each bears the challenged claim. Representative exemplars illustrating the
18 challenged claims are pictured below.

<sup>102</sup> Most flavors of the Classic Bars call out "Rolled Oats" on the front of the label, but other
 flavors call out other ingredients such as peanut butter or chia seeds to create the impression
 the products are healthy.

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# C. Clif Deceptively Omits, Intentionally Distracts From, and Otherwise Downplays the Bars' High Added Sugar Content

3 161. In marketing its bars with health and wellness claims, Clif regularly and intentionally omits material information regarding the amount and dangers of the added 4 5 sugars in its products. Clif is under a duty to disclose this information to consumers because (a) Clif is revealing *some* information about its products—enough to suggest they are healthy 6 or conducive to good physical health—without revealing additional material information— 7 that the amount of added sugar in the bars has detrimental health effects, (b) Clif's deceptive 8 omissions concern human health, and specifically the detrimental health consequences of 9 10 consuming its Products, (c) Clif was in a superior position to know of the dangers presented by the added sugars in its bars, as it is a global food company whose business depends upon 11 12 food science and holds itself out to be a leader in health bars, and (d) Clif actively concealed 13 material facts not known to Plaintiffs and the class.

14 162. As described above, in marketing its bars, Clif regularly affirmatively uses
15 certain words and phrases to suggest its Products are healthy or conducive to good health
16 and physical well-being, which is misleading given their added sugar content. In light of
17 these voluntary statements, Clif therefore has a duty to disclose information regarding the
18 harmful effects of the added sugar in its Products.

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D. In Representing that Many of Its High-Sugar Bars Contain "NO HIGH-FRUCTOSE CORN SYRUP," Clif Leverages Consumer Confusion to Obscure the Dangers of the Bars' Added Sugars

163. Clif also regularly uses the phrase "NO HIGH-FRUCTOSE CORN SYRUP"
to falsely suggest that its Clif Kid Zbars' sugar content is not excessive or harmful.

164. This claim is false and misleading because the Zbar Products' sugar content is
high, not low. Such statements are likely to confuse even consumers aware of health issues
regarding added sugar, because they suggest any such health issues, in any event, do not
pertain to the Products that bear this claim, which in reality contain 6g - 12g of added sugar
per serving, contributing 17% - 37% of the Products' calories.

1 165. Clif has capitalized on consumer aversion toward high fructose corn syrup
 2 (HFCS) by touting the absence of that ingredient, deceptively suggesting that its Clif Kid
 3 Zbars are healthier because HFCS is absent.

- 4 166. This strategy leverages consumer confusion over the relative dangers of
  5 different forms of added sugar, inasmuch as many consumers incorrectly believe that HFCS
  6 is a substantially more dangerous form of added sugar than other forms.
- 167. Some consumers also incorrectly believe there are "healthy" forms of added
  sugar, for example, honey, "cane" sugar, or "natural" sugars. Conversely, many consumers
  are not even aware that some more obscure ingredients *are* added sugars, such as brown rice
  syrup, glycerin, dextrose, maltodextrin, and fruit juice "concentrates." Clif sweetens all of
  its Products with brown rice syrup, and it is the *primary* ingredient in its "Classic" Clif Bars.

12 168. In reality, added sugar in virtually any form—and certainly in the forms used
13 to sweeten the Clif Products—contains toxic fructose, and thus has essentially the same
14 detrimental health effects, with typically only minor differences in the ratio of fructose to
15 glucose in a given form of added sugar. Thus, even if literally true, Clif's "NO HIGH16 FRUCTOSE CORN SYRUP" representations are highly misleading.

# 17 VI. The Labeling of the High-sugar Products Violates California, New York, and 18 Federal Law

- 19 20
- A. Any Violation of Federal Food Labeling Statutes or Regulations is a Violation of California and New York law

21 169. "California, [and] New York . . . broadly prohibit the misbranding of food in
22 language largely identical to that found in the FDCA." *Ackerman v. Coca-Cola Co.*, 2010
23 U.S. Dist. LEXIS 73156, at \*12 (E.D.N.Y. July 21, 2010).

170. The Products and their labeling violate California Health and Safety Code §§
109875, *et. seq.* (the "Sherman Law"), which has expressly adopted the federal food labeling
requirements as its own. *See* Cal. Health & Safety Code § 110665.

27 171. Under the Sherman Law, any violation the Federal Food Federal Food, Drug,
28 and Cosmetic Act and/or federal regulations is also a violation of the Sherman Law. *See* Cal.

Health & Safety Code § 110665 ("Any food is misbranded if its labeling does not conform
 with the requirements for nutrition labeling as set forth in Section 403(q) (21 U.S.C. Sec.
 343(q)) of the federal act and the regulation adopted pursuant thereto.").

4 172. Similarly, "New York's Agriculture and Marketing law similarly . . .
5 incorporates the FDCA's labeling provisions found in 21 C.F.R. part 101." *Ackerman*, 2010
6 U.S. Dist. LEXIS 73156, \*12 (citing N.Y. Comp. Codes R. & Regs. tit. 1, § 259.1).

7 173. The Federal Food Federal Food, Drug, and Cosmetic Act expressly authorizes
8 state regulations, such as such as the Agriculture and Marketing Law and the Sherman Law,
9 that are "identical to the requirement[s]" of the FDCA and federal regulations. *See* 21 U.S.C.
10 § 343-1.

174. Because the Agriculture and Marketing Law's and Sherman Law's
requirements are identical to the requirements of the Federal Food, Drug, and Cosmetic Act
and FDA regulations the Agriculture and Marketing Law and Sherman Law is explicitly
authorized by the FDCA.

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# **B.** The High-sugar Products' False and Misleading Labeling Claims Render Them Misbranded

17 175. Clif's deceptive statements violate N.Y. Agric. & Mkts. Law § 201, Cal. Health
18 & Safety Code § 109875, and 21 U.S.C. § 343(a), which deem a food product misbranded
19 when its label is "false or misleading in any particular."

20 176. As described above, the Products' label contains numerous statements that are
21 false or misleading because they state, suggest, or imply that the Products are healthy or
22 conducive to good health and physical well-being, which render them misbranded.

177. In addition, Clif's health and wellness statements challenged herein also
"fail[ed] to reveal facts that are material in light of other representations made or suggested
by the statement[s], word[s], design[s], device[s], or any combination thereof," in violation
of 21 C.F.R. § 1.21(a)(1). Such facts include the detrimental health consequences of
consuming added sugars in amounts present in the challenged products.

178. Clif similarly failed to reveal facts that were "[m]aterial with respect to the
 consequences which may result from use of the article under" both "[t]he conditions
 prescribed in such labeling," and "such conditions of use as are customary or usual," in
 violation of § 1.21(a)(2). Namely, Clif failed to disclose the increased risk of serious chronic
 disease likely to result from the usual consumption of its Products.

## **VII.** Plaintiffs' Purchase, Reliance, and Injury

7 179. Plaintiffs were exposed to, read, and relied upon Defendant's claims upon the
8 Products' labeling and packaging that were intended to appeal to consumers, such as
9 themselves, that are interested in health and nutrition and that convey a misleading health
10 and wellness message or at least a message that the Products will not detriment health.

180. Mr. Milan has purchased boxes of Clif Kid ZBar "Original," Clif Kid ZBar 11 12 Protein, and Clif Kid ZBar Filled, during the class period. Mr. Milan has also purchased both 13 boxes and individual Clif Classic bars in several flavors during the class period. He believes he first began purchasing Clif products in late 2014 or early 2015, and would purchase Clif 14 products approximately 3-4 times per year. His most recent purchases occurred in June or 15 16 July of 2017. Mr. Milan typically made his purchases at Target stores located in Irvine, Santa Ana, and Costa Mesa, such as those located at 1441 W. 17th St., Santa Ana, California 17 92706, 1330 17th St., Santa Ana, California 92705, 3300 S. Bristol St., Santa Ana, California 18 92704, 3030 Harbor Blvd., Costa Mesa, California 92626, and 3750 Barranca Pkwy, Irvine, 19 20 California 92606. Mr. Milan has also purchased the Classic Clif bars at 7-Eleven stores throughout California. 21

181. To the best of his recollection, when deciding to purchase the high-sugar
Products Mr. Milan read and relied on the following deceptive claims contained on the
labeling and packaging of Products:

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- "Nourishing Kids in Motion"
- b. "No High-Fructose Corn Syrup"

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c. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid – wholesome, delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

d. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid – delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

e. "CLIF Kid Zbar['s] blend of carbs, fiber, protein, and fat gives kids energy so they can keep Zipping and Zooming along."

f. "[A] blend of nutrients for energy to help your kid Zipping and Zooming along."

g. "CLIF Kid Zbar Protein['s] balanced blend of protein, whole grains, vitamins, and minerals helps provide nutritional building blocks for kids' growing bodies . . . ."

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"Nutrition for Sustained Energy"

15 182. Mr. Milan believed these claims regarding the health and nutrition qualities of
16 the Products, which are deceptive because they convey that the Products are healthy and will
17 not detriment health, despite that the Products contain excessive sugar, which detriments
18 health.

19 183. During the class period, Ms. Aquino purchased Clif Kid ZBar "Original" in 20 Iced Oatmeal Cookie and Chocolate Chip flavors, Clif Kid ZBar Filled in the Chocolate Peanut Butter flavor, and Clif Kid ZBar Fruit and Veggie in Awesome Orange and Keen 21 Green flavors. She believes she first began purchasing Clif Kid ZBars in late 2016 and her 22 23 most recent purchase was in approximately September 2017. She would typically purchase approximately two to three boxes about every other week from local grocery stores such as 24 25 the Target located at 950 E. 33rd St., Signal Hill, California, 90755 or the Grocery Outlet 26 Bargain Market located at 6436 E. Spring St., Long Beach, California, 90815.

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184. To the best of her recollection, when deciding to purchase the high-sugar Clif Kid ZBar Products, Ms. Aquino read and relied on the following deceptive claims contained on the labeling and packaging of Products:

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"Nourishing Kids in Motion"

a.

b.

"No High-Fructose Corn Syrup"

c. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid – wholesome, delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

d. "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid – delicious snacks made with organic ingredients to keep kids going, growing, and exploring."

e. "CLIF Kid Zbar['s] blend of carbs, fiber, protein, and fat gives kids energy so they can keep Zipping and Zooming along."

- f. "[A] blend of nutrients for energy to help your kid Zipping and Zooming along."
  - g. "CLIF Kid Zbar Fruit + Veggie . . . is crafted with a blend of whole grains, vitamins & minerals, fruit juice concentrates, and vegetable powders to give kids energy so they can keep Zipping and Zooming along."

19 185. Ms. Aquino believed these claims regarding the health and nutrition qualities
20 of the Products, which are deceptive because they convey that the products are healthy and
21 will not detriment health, despite that the Products contain excessive sugar, which detriments
22 health.

186. Elizabeth Arnold has purchased Clif Kid ZBar "Original," and Classic Clif Bars
during the class period. She believes she first began purchasing Clif products in 2013, and
would purchase Clif products approximately once every two weeks, or once per month. Her
most recent purchase occurred in January 2018. Ms. Arnold believes she has purchased
boxes of Clif Kid ZBar "Original" in Chocolate Chip and Chocolate Brownie flavors, during
the class period. Ms. Arnold has purchased both boxes and individual Clif Classic bars in

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Chocolate Chip, Oatmeal Raisin Walnut, Chocolate Brownie and some seasonal flavors
 during the class period. Ms. Arnold typically made her purchases at Wegmans located at
 5275 Sheridan Dr. in Williamsville, New York and 675 Alberta Dr. in Amherst, New York.
 She also purchased the Products at the Target store located at 5622 Amanda Lane, Orchard
 Park, New York.

187. To the best of her recollection, when deciding to purchase the high-sugar
Products, Ms. Arnold read and relied on the following deceptive claims contained on the
labeling and packaging of Products:

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a. "Nourishing Kids in Motion"

- 10

b.

"No High-Fructose Corn Syrup"

c. "In raising our family, finding nutritious on-the-go snacks for our kids
wasn't easy. That's why we created Clif Kid – wholesome, delicious snacks made
with organic ingredients to keep kids going, growing, and exploring."

- 14 d. "CLIF Kid Zbar['s] blend of carbs, fiber, protein, and fat gives kids
  15 energy so they can keep Zipping and Zooming along."
- 16
- e. "Nutrition for Sustained Energy"

17 188. Ms. Arnold believed these claims regarding the health and nutrition qualities of
18 the Products, which are deceptive because they convey that the products are healthy and
19 won't detriment health, despite that the Products contain excessive sugar, which detriments
20 health.

189. When purchasing Clif bars, Plaintiffs were seeking products that were healthy
to consume, that is, whose consumption would not increase their risk of CHD, stroke, and
other morbidity.

190. The health and wellness representations on the Clif Products' packaging,
however, were misleading, and had the capacity, tendency, and likelihood to confuse or
confound Plaintiffs and other consumers acting reasonably (including the putative class)
because, as described in detail herein, the Products are not healthy but instead their
consumption increases the risk of CHD, stroke, and other morbidity.

1 191. Plaintiffs are not nutritionists, food experts, or food scientists, but rather lay consumers who did not have the specialized knowledge that Clif had regarding the nutrients 2 3 present in its Products. At the time of purchase, Plaintiffs were unaware of the extent to which consuming high amounts of added sugar, in any form, adversely affects blood 4 5 cholesterol levels and increases risk of CHD, stroke, and other morbidity, or what amount of added sugar might have such an effect. 6

7 192. The average and reasonable consumer is unaware of the extent to which consuming high amounts of added sugar, in any form, adversely affects blood cholesterol 8 9 levels and increases risk of CHD, stroke, and other morbidity, or what amount of added sugar 10 might have such an effect.

193. Plaintiffs acted reasonably in relying on Clif's health and wellness marketing, 11 12 which Clif intentionally placed on the Products' labels with the intent to induce average consumers into purchasing the Products. 13

194. Plaintiffs would not have purchased the Clif Products if they knew that their 14 15 labeling claims were false and misleading in that the Products were not as healthy as 16 represented but actually harm health.

195. The high-sugar Clif Products costs more than similar Products without 17 misleading labeling, and would have cost less absent the false and misleading statements. 18

19 196. Through the misleading labeling claims, Clif was able to gain a greater share of 20 the health-bar market than it would have otherwise and also increased the size of the market.

21 197. Plaintiffs paid more for the high-sugar Clif Products, and would only have been willing to pay less, or unwilling to purchase the Products at all, absent the false and 22 misleading labeling complained of herein. 23

198. Plaintiffs and members of the Class would not have purchased the high-sugar 24 Products if it were known to them that the Products are misbranded pursuant to California, 25 New York and FDA regulations or that their claims were false or misleading. 26

27 199. For these reasons, the high-sugar Clif Products were worth less than what 28 Plaintiffs and the Class paid for them.

200. Instead of receiving products that had actual healthful qualities, the Products
 Plaintiffs and the Class received were not healthy, but rather their consumption causes
 increased risk of CHD, stroke, and other morbidity.

201. Plaintiffs and the Class lost money as a result of Defendant's deceptive claims
and practices in that they did not receive what they paid for when purchasing the high-sugar
Clif Products.

202. Plaintiffs and the Class detrimentally altered their position and suffered
damages in an amount equal to the amount they paid for the high-sugar Clif Products.

9 203. Plaintiffs continue to desire to purchase healthy nutrition bars, and continue to
10 see the Clif Products when they shop.

204. Plaintiffs would purchase the challenged Clif Products in the future if they were
in fact healthy, but unless Clif is enjoined in the manner Plaintiffs request, they may not be
able to reasonably determine whether the Products have been reformulated to conform to the
misleading claims.

15 205. Plaintiffs would likely purchase the challenged Clif Products if they could trust
16 that the health and wellness claims were not false or misleading, but absent an injunction,
17 Plaintiffs will be unable to trust the representations on the Clif Products when they encounter
18 them, as they frequently do, where they shop.

19 206. Plaintiffs' substantive right to a marketplace free of fraud, where they are
20 entitled to rely on representations such as those made by Clif with confidence continue to be
21 violated every time Plaintiffs are exposed to a misleading Clif Products' labeling claims—
22 which they currently cannot trust as being truthful.

23 207. If Plaintiffs could be assured that any health and wellness claims on the
24 challenged Products were lawful and not misleading, they would consider purchasing the
25 Products in the future.

26

## **CLASS ACTION ALLEGATIONS**

27 208. Pursuant to Rule 23, Plaintiffs bring this action on behalf of themselves and a
28 class of all persons in the United States (or alternatively, California, and New York) who

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purchased the high-sugar Products, for personal or household use, and not for resale or 1 2 distribution purposes.

209. The members in the proposed Class are so numerous that individual joinder of all members is impracticable, and the disposition of the claims of all Class Members in a 4 single action will provide substantial benefits to the parties and Court.

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210. Questions of law and fact common to Plaintiffs and the Class include:

whether Defendant communicated a message regarding healthfulness of a. the Products through their packaging and advertising;

9 whether that message was material, or likely to be material to a b. 10 reasonable consumer;

whether the challenged claims discussed above are false, misleading, or c. reasonably likely to deceive a reasonable consumer;

d.

whether Defendant's conduct violates public policy;

14 whether Defendant's conduct constitutes violations of the laws asserted e. 15 herein;

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f. whether Defendant engaged in false or misleading advertising;

whether Plaintiffs and Class members are entitled to declaratory and 17 g. injunctive relief; and 18

whether Plaintiffs and Class members are entitled to actual damages, h. restitution, punitive damages, attorneys' fees and costs, injunctive, and the amount of that or any other relief.

211. These common questions of law and fact predominate over questions that affect 22 only individual Class Members. 23

212. Plaintiffs' claims are typical of Class Members' claims because they are based 24 on the same underlying conduct by Defendant. Specifically, all Class Members, including 25 Plaintiffs, were subjected to the same misleading and deceptive conduct when they 26 purchased the challenged Products and suffered economic injury because the Products are 27 28 misrepresented. Absent Defendant's business practice of deceptively and unlawfully

labeling its Products, Plaintiffs and Class members would not have purchased the Products
 or only would have been willing to pay less.

213. Plaintiffs will fairly and adequately represent and protect the interests of the
Class, have no interests incompatible with the interests of the Class, and have retained
counsel competent and experienced in class action litigation.

6 214. Class treatment is superior to other options for resolution of the controversy
7 because the relief sought for each Class Member is small such that, absent representative
8 litigation, it would be infeasible for Class Members to redress the wrongs done to them.

9 215. Questions of law and fact common to the Class predominate over any questions
10 affecting only individual Class Members.

216. Defendant has acted on grounds applicable to the Class, thereby making
appropriate final injunctive and declaratory relief concerning the Class as a whole.

13 217. As a result of the foregoing, class treatment is appropriate under Fed. R. Civ. P.
14 23(a), (b)(2), and (b)(3).

15		CAUSES OF ACTION
16		FIRST CAUSE OF ACTION
17		Violations of the Unfair Competition Law,
18		Cal. Bus. & Prof. Code § 17200 et seq.
19		(By the Nationwide Class)
20	218.	Plaintiffs reallege and incorporate the allegations elsewhere in the Complaint
21	as if set fort	h in full herein.
22	219.	The UCL prohibits any "unlawful, unfair or fraudulent business act or practice."
23	Cal. Bus. &	Prof. Code §17200.
24	220.	The acts, omissions, misrepresentations, practices, and non-disclosures of Clif
25	as alleged he	erein constitute business acts and practices.
26		Fraudulent
27	221.	A statement or practice is fraudulent under the UCL if it is likely to deceive the
28	public, apply	ying an objective reasonable consumer test.
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**CLASS ACTION COMPLAINT** 

222. As set forth herein, the Clif's claims and omissions relating to the high-sugar Products are likely to deceive reasonable consumers and the public.

Unlawful

223. The acts alleged herein are "unlawful" under the UCL in that they violate at least the following laws:

• The Federal Food, Drug, and Cosmetic Act, 21 U.S.C. §§ 301 *et seq*.

• The False Advertising Law, Cal. Bus. & Prof. Code §§ 17500 et seq.;

• The Consumers Legal Remedies Act, Cal. Civ. Code §§ 1750 et seq.; and

The California Sherman Food, Drug, and Cosmetic Law, Cal. Health & Safety
Code §§ 110100 *et seq*.

#### Unfair

12 224. Clif's conduct with respect to the labeling, advertising, and sale of the high13 sugar Products was also unfair because it violated public policy as declared by specific
14 constitutional, statutory or regulatory provisions, including but not limited to the False
15 Advertising Law, portions of the Federal Food, Drug, and Cosmetic Act, and portions of the
16 California Sherman Food, Drug, and Cosmetic Law.

17 225. Clif's conduct with respect to the labeling, advertising, and sale of the high18 sugar Products was also unfair because the consumer injury was substantial, not outweighed
19 by benefits to consumers or competition, and not one consumers themselves could
20 reasonably have avoided.

21 226. Clif's conduct with respect to the labeling, advertising, and sale of the high22 sugar Products was unfair because Clif's conduct was immoral, unethical, unscrupulous, or
23 substantially injurious to consumers and the utility of its conduct, if any, does not outweigh
24 the gravity of the harm to its victims.

25 227. Neither the economic nor health harm to consumers from purchasing and
26 consuming the high-sugar Products due to the deceptive claims are outweighed by
27 Defendant's increased profits from use of the health and wellness labeling claims and its
28 material omissions.

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228. Clif profited from its sale of the falsely, deceptively, and unlawfully advertised
 high-sugar Products to unwary consumers.

229. Plaintiffs and Class Members are likely to be damaged by Clif's deceptive trade
practices, as Clif continues to disseminate misleading information. Thus, injunctive relief
enjoining this deceptive practice is proper.

Clif's conduct caused and continues to cause substantial injury to Plaintiffs and
the other Class Members, who have suffered injury in fact as a result of Clif's fraudulent,
unlawful, and unfair conduct.

9 231. In accordance with Bus. & Prof. Code § 17203, Plaintiffs, on behalf of
10 themselves, the Class, and the general public, seek an order enjoining Clif from continuing
11 to conduct business through unlawful, unfair, or fraudulent acts and practices, and to
12 commence a corrective advertising campaign.

13 232. Plaintiffs, on behalf of themselves and the Class also seek an order for
14 disgorgement and restitution of all monies from the sale of the high-sugar Products, which
15 were unjustly acquired through acts of unlawful, unfair, and fraudulent competition.

#### SECOND CAUSE OF ACTION

## Violations of the False Advertising Law,

#### Cal. Bus. & Prof. Code §§ 17500 et seq.

#### (By the Nationwide Class)

20 233. Plaintiffs reallege and incorporate the allegations elsewhere in the Complaint
21 as if set forth in full herein.

22 234. Under the FAL, "[i]t is unlawful for any person, firm, corporation or
23 association, or any employee thereof with intent directly or indirectly to dispose of real or
24 personal property or to perform services" to disseminate any statement "which is untrue or
25 misleading, and which is known, or which by the exercise of reasonable care should be
26 known, to be untrue or misleading." Cal. Bus. & Prof. Code § 17500.

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1 235. It is also unlawful under the FAL to disseminate statements concerning property or services that are "untrue or misleading, and which is known, or which by the exercise of 2 3 reasonable care should be known, to be untrue or misleading." Id.

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236. As alleged herein, the advertisements, labeling, policies, acts, and practices of Clif relating to the high-sugar Products misled consumers acting reasonably as to the 6 healthfulness of the high-sugar Products.

237. Plaintiffs suffered injury in fact as a result of Clif's actions as set forth herein 7 because Plaintiffs purchased the high-sugar Products in reliance on Clif's false and 8 9 misleading marketing claims and lost money as a result.

10 238. Clif's business practices as alleged herein constitute unfair, deceptive, untrue, and misleading advertising pursuant to the FAL because Clif has advertised the high-sugar 11 12 Products in a manner that is untrue or misleading, which Clif knew or reasonably should have known. 13

239. Clif profited from its sales of the falsely and deceptively advertised high-sugar 14 15 Products to unwary consumers.

16 240. As a result, pursuant to Cal. Bus. & Prof. Code § 17535, Plaintiffs and the Class are entitled to injunctive and equitable relief, restitution, and an order for the 17 disgorgement of the funds by which Clif was unjustly enriched. 18

## **THIRD CAUSE OF ACTION**

#### Violations of the Consumer Legal Remedies Act,

Cal. Civ. Code §§ 1750 et seq.

#### (By the Nationwide Class)

23 241. Plaintiffs reallege and incorporate the allegations elsewhere in the Complaint 24 as if set forth in full herein.

25 242. The CLRA prohibits deceptive practices in connection with the conduct of a business that provides goods, property, or services primarily for personal, family, or 26 27 household purposes.

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#### 72 CLASS ACTION COMPLAINT

243. Clif's false and misleading labeling and other policies, acts, and practices
 described herein were designed to, and did, induce the purchase and use of Clif's high-sugar
 Products for personal, family, or household purposes by Plaintiffs and other Class Members,
 and violated and continue to violate at least the following sections of the CLRA:

a. § 1770(a)(5): representing that goods have characteristics, uses, or benefits which they do not have;

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b. § 1770(a)(7): representing that goods are of a particular standard, quality, or grade if they are of another;

- 9 c. § 1770(a)(9): advertising goods with intent not to sell them as advertised;
  10 and
  - d. § 1770(a)(16): representing the subject of a transaction has been supplied in accordance with a previous representation when it has not.

13 244. Clif profited from its sales of the falsely, deceptively, and unlawfully advertised
14 high-sugar Products to unwary consumers.

15 245. Clif's wrongful business practices regarding the high-sugar Products
16 constituted, and constitute, a continuing course of conduct in violation of the CLRA.

17 246. Pursuant to California Civil Code § 1782, Plaintiffs sent written notice to Clif
18 of their claims, but Clif failed to remedy the violations within 30 days thereafter. Because
19 Clif failed to implement remedial measures, Plaintiffs on behalf of themselves and the Class,
20 seek injunctive relief under Civil Code § 1782(d), as well as statutory, actual, and punitive
21 damages, including attorneys' fees.

22 247. Filed concurrently with the Complaint is a venue of affidavit as required under
23 California Civil Code § 1782.

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# FOURTH CAUSE OF ACTION **Breaches of Express Warranties,** Cal. Com. Code § 2313(1) (By the Nationwide Class)

248. Plaintiffs reallege and incorporate the allegations elsewhere in the Complaint 6 as if set forth in full herein.

7 249. Through labeling of the high-sugar Products, Clif made affirmations of fact or promises, or description of goods, listed in paragraphs 128, 135, 142, 149, and 157. These 8 representations were "part of the basis of the bargain." in that Plaintiffs and the Class 9 10 purchased the high-sugar Products in reasonable reliance on those statements. Cal. Com. Code § 2313(1). 11

12 250. Clif breached its express warranties by selling Products that are harmful to 13 health.

251. That breach actually and proximately caused injury in the form of the lost 14 15 purchase price that Plaintiffs and Class members paid for the high-sugar Products.

252. As a result, Plaintiffs seek, on behalf of themselves and other Class Members, 16 their actual damages arising as a result of Clif's breaches of express warranty. 17

**FIFTH CAUSE OF ACTION** 18 Breach of Implied Warranty of Merchantability, 19 20 Cal. Com. Code § 2314 21 (By the Nationwide Class) 253. Plaintiffs reallege and incorporate the allegations elsewhere in the Complaint 22 23 as if set forth in full herein. 254. Clif, through its acts set forth herein, in the sale, marketing, and promotion of 24 25 the high-sugar Products, made representations to Plaintiffs and the Class regarding the health and nutrition properties of the Products. 26 27 28 74

255. Clif is a merchant with respect to the goods of this kind which were sold to
 Plaintiffs and the Class, and there was, in the sale to Plaintiffs and other consumers, an
 implied warranty that those goods were merchantable.

4 256. However, Clif breached that implied warranty in that the high-sugar Products
5 are harmful to health, increasing risk of cardiovascular disease, obesity, liver disease and
6 other serious diseases.

7 257. As an actual and proximate result of Clif's conduct, Plaintiffs and the Class did
8 not receive goods as impliedly warranted by Clif to be merchantable in that they did not
9 conform to promises and affirmations made on the container or label of the goods.

258. Plaintiffs and the Class have sustained damages as a proximate result of the
foregoing breach of implied warranty in the amount of the high-sugar Products' purchase
price.

13	SIXTH CAUSE OF ACTION
14	Unfair And Deceptive Business Practices,
15	N.Y. Gen. Bus. L. § 349
16	(By the New York Subclass)
17	259. The New York Plaintiff, Ms. Arnold, realleges and incorporates the allegations
18	elsewhere in the Complaint as if fully set forth herein.
19	260. Clif's conduct constitutes deceptive acts or practices or false advertising in the
20	conduct of business, trade or commerce or in the furnishing of services in New York which
21	affects the public interest under N.Y. Gen. Bus. L. § 349.
22	261. As alleged herein, Clif engaged in, and continues to engage in, deceptive acts
23	and practices by advertising, marketing, distributing, and selling the high-sugar bars with
24	false or misleading claims and representations as well as by additional deceptive omissions
25	in light of the representations made.
26	262. As alleged herein, by misbranding the high-sugar products, Clif engaged in, and
27	continues to engage in, unlawful and deceptive acts and practices.
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263. Clif's conduct was materially misleading to Plaintiff and the class. During the
 class period, Clif carried out a plan, scheme and course of conduct which was consumer
 oriented.

4 264. As a direct and proximate result of Clif's violation of N.Y. Gen. Bus. L. § 349,
5 Plaintiff and the class were injured and suffered damages.

6 265. The injuries to Plaintiff and the class were foreseeable to Clif and, thus Clif's
7 actions were unconscionable and unreasonable.

8 266. Clif is liable for damages sustained by Plaintiff and the class to the maximum
9 extent allowable under N.Y. Gen. Bus. L. § 349, actual damages or fifty dollars, whichever
10 is greater, or both.

267. Pursuant to N.Y. Gen. Bus. L. § 349(h), Plaintiff and the class seek an Order
enjoining Clif from continuing to engage in unlawful acts or practices, false advertising, and
any other acts prohibited by law, including those set forth in this Complaint.

#### SEVENTH CAUSE OF ACTION

#### False Advertising, N.Y. Gen. Bus. L. § 350

#### (By the New York Class)

17 268. The New York Plaintiff, Ms. Arnold, realleges and incorporates the allegations18 elsewhere in the Complaint as if fully set forth herein.

19 269. Clif has engaged and is engaging in consumer-oriented conduct which is
20 deceptive or misleading in a material way (both by affirmative misrepresentations and by
21 material omissions), constituting false advertising in the conduct of any business, trade, or
22 commerce, in violation of N.Y. Gen. Bus. L. § 350.

23 270. As a result of Clif's false advertising, Plaintiff and the class have suffered and
24 continue to suffer substantial injury, including damages, which would not have occurred but
25 for the false and deceptive advertising, and which will continue to occur unless Clif is
26 permanently enjoined by this Court.

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76 Class Action Complaint 271. Plaintiff Arnold and the New York Subclass seek to enjoin the unlawful acts
 and practices described herein, and to recover their actual damages or five hundred dollars,
 whichever is greater, or both such actions, and reasonable attorney fees.

#### **EIGHTH CAUSE OF ACTION**

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#### **Breach of Express Warranty**

#### NY CLS UCC § 2-313

#### (By the New York Class)

8 272. The New York Plaintiff, Ms. Arnold, realleges and incorporates the allegations
9 elsewhere in the Complaint as if fully set forth herein.

10 273. In selling the high-sugar Products to Plaintiff and the class members Clif made 11 an affirmation of fact or promise that the products were "healthy" or at least would not 12 detriment health (described in paragraphs 128, 135, 142, 149, and 157), as well as related 13 affirmations of fact, promises, and descriptions, which formed part of the basis of the 14 bargain. Clif thus expressly warranted the goods sold.

15 274. The high-sugar Products do not live up to these affirmations of fact, promises,
and descriptions, causing the breach of warranty when Plaintiff and other consumers
purchased them.

18 275. That breach actually and proximately caused injury in the form of the lost
19 purchase price that Plaintiff and the Class paid for the high-sugar Products.

20 276. Plaintiff, on behalf of herself and the New York class, seek actual damages for
21 Clif's breach of warranty.

## NINTH CAUSE OF ACTION

## **Breach of Implied Warranty of Merchantability**

#### NY CLS UCC § 2-314

## (By the New York Class)

277. Plaintiff Arnold realleges and incorporates the allegations elsewhere in the Complaint as if fully set forth herein.

278. Clif, through its acts set forth herein, in the sale, marketing, and promotion of
 the Products, made representations to Plaintiff and the Class regarding the health and
 nutrition properties of the Products.

279. Clif is a merchant with respect to the goods of this kind which were sold to
Plaintiff and the Class, and there was, in the sale to Plaintiff and other consumers, an implied
warranty that those goods were merchantable.

7 280. However, Clif breached that implied warranty in that the Products are not
8 adequately labeled, and do not conform to the promises or affirmations of fact made on the
9 label because the Products are harmful to health, increasing risk of cardiovascular disease,
10 obesity, liver disease and other serious diseases.

281. As an actual and proximate result of Clif's conduct, Plaintiff and the Class did
not receive goods as impliedly warranted by Clif to be merchantable in that they did not
conform to promises and affirmations made on the container or label of the goods.

14 282. Plaintiff and the Class have sustained damages as a proximate result of the15 foregoing breach of implied warranty in the amount of the Products' purchase price.

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PRAYER FOR RELIEF

17 283. Wherefore, Plaintiffs, on behalf of themselves, all others similarly situated, and
18 the general public, pray for judgment against Clif as to each and every cause of action, and
19 the following remedies:

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A. An Order declaring this action to be a proper class action, appointing Plaintiffs as class representatives, and appointing undersigned counsel as class counsel;

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B. An Order requiring Clif to bear the cost of class notice;

C. An Order enjoining Clif from using any challenged labeling or marketing claim that is found to be false, misleading, or unlawful;

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D. An Order compelling Clif to conduct a corrective advertising campaign;

E. An Order compelling Clif to destroy all misleading and deceptive advertising materials and the high-sugar Products' labels;

#### CLASS ACTION COMPLAINT

1	F. An Order requiring Clif to pay restitution to restore all funds acquired by									
2	means of any act or practice declared by this Court to be an unlawful, unfair, or									
3	fraudulent business act or practice, or untrue or misleading advertising;									
4	G. An Order requiring Clif to pay compensatory, statutory and punitive									
5	damages where permitted by law;									
6	H. Pre- and post-judgment interest where available;									
7	I. An award of attorneys' fees and costs;									
8	J. Any other and further relief that Court deems necessary, just, or proper.									
9	JURY DEMAND									
10										
11	Plaintiffs hereby demand a trial by jury on all issues so triable.									
12	Dated: April 18, 2018 /s/ Paul K. Joseph									
13	LAW OFFICE OF PAUL K. JOSEPH, PC									
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26	Counsel for Plaintiffs and the Proposed Class									
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	CLASS ACTION COMPLAINT									

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# Appendix 1

## Clif Kid ZBar "Original"

- "Nourishing Kids in Motion"
- "No High-Fructose Corn Syrup"
- "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid wholesome, delicious snacks made with organic ingredients to keep kids going, growing, and exploring."
- "CLIF Kid Zbar['s] blend of carbs, fiber, protein, and fat gives kids energy so they can keep Zipping and Zooming along."

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Chocolate Brownie	Organic Tapioca Syrup, Organic Dried Cane Syrup (in the choc chips), Organic Cane Syrup, Organic Fig Paste	36g	130	11g	11g	31%	34%	Kids 4-8: 92% Kids 9-18: 44%
Chocolate Chip	Organic Tapioca Syrup, Organic Dried Cane Syrup (in the choc chips), Organic Fig Paste, Organic Cane Syrup, Organic Maple Syrup	36g	130	12g	12g	33%	37%	Kids 4-8: 100% Kids 9-18: 48%
Pirate Chocolate Chip	Organic Tapioca Syrup, Organic Dried Cane Syrup (in the choc chips), Organic Fig Paste, Organic Cane Syrup, Organic Maple Syrup	36g	130	12g	12g	33%	37%	Kids 4-8: 100% Kids 9-18: 48%

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Iced Lemon Cookie	Organic Tapioca Syrup, Organic Dried Cane Syrup (in the "white chunks") Organic Cane Syrup, Organic Fig Paste	36g	140	12g	12g	33%	34%	Kids 4-8: 100% Kids 9-18: 48%
Iced Oatmeal Cookie	Organic Tapioca Syrup, Organic Cane Syrup, Organic Fig Paste, Organic Dried Cane Syrup (in the "white chocolate"), Organic Dried Cane Syrup (in the "white coating")	36g	140	12g	12g	33%	34%	Kids 4-8: 100% Kids 9-18: 48%
S'Mores	Organic Tapioca Syrup, Organic Fig Paste, Organic Dried Cane Syrup (in choc chips), Organic Cane Syrup, Organic Honey, Organic Dried Cane Syrup (in the "white chunks")	36g	130	12g	12g	33%	37%	Kids 4-8: 100% Kids 9-18: 48%

# Clif Kid ZBar Filled

- "Nourishing Kids in Motion"
- "No High-Fructose Corn Syrup"
- "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid delicious snacks made with organic ingredients to keep kids going, growing, and exploring."
- "[A] blend of nutrients for energy to help your kid Zipping and Zooming along."

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Chocolate Peanut Butter	Organic Tapioca Syrup, Organic Cane Syrup, Organic Fig Paste, Organic Dried Cane Syrup	30g	130	7g	7g	23%	22%	Kids 4-8: 58% Kids 9-18: 28%
Double Peanut Butter	Organic Tapioca Syrup, Organic Fig Paste, Organic Cane Syrup, Organic Dried Cane Syrup	30g	140	6g	6g	20%	17%	Kids 4-8: 50% Kids 9-18: 24%
Apple Almond Butter	Organic Tapioca Syrup, Organic Fig Paste, Organic Cane Syrup, Organic Dried Cane Syrup	30g	140	7g	7g	23%	20%	Kids 4-8: 58% Kids 9-18: 28%

## **<u>Clif Kid ZBar Protein</u>**

- "Nourishing Kids in Motion"
- "No High-Fructose Corn Syrup
- "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid delicious snacks made with organic ingredients to keep kids going, growing, and exploring."
- "Clif Kid Zbar['s] balanced blend of protein, whole grains, vitamins, and minerals helps provide nutritional building block for kids' growing bodies..."

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Chocolate Chip	Organic Tapioca Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Chicory Fiber Syrup, Organic Tapioca Syrup Solids	36g	130	9g	9g	25%	28%	Kids 4-8: 75% Kids 9-18: 36%
Chocolate Mint	Organic Tapioca Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Chicory Fiber Syrup, Organic Tapioca Syrup Solids	36g	130	8g	8g	22%	25%	Kids 4-8: 67% Kids 9-18: 32%
Peanut Butter Chocolate	Organic Tapioca Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Chicory Fiber Syrup, Organic Tapioca Syrup Solids	36g	130	8g	8g	22%	25%	Kids 4-8: 67% Kids 9-18: 32%

## Clif Kid ZBar Fruit & Veggie

- "Nourishing Kids in Motion"
- "No High-Fructose Corn Syrup"
- "In raising our family, finding nutritious on-the-go snacks for our kids wasn't easy. That's why we created Clif Kid delicious snacks made with organic ingredients to keep kids going, growing, and exploring."
- "CLIF Kid Zbar Fruit + Veggie . . . is crafted with a blend of whole grains, vitamins & minerals, fruit juice concentrates, and vegetable powders to give kids energy so they can keep Zipping and Zooming along."

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g
Purple Power	Organic Tapioca Syrup, Organic Cane Syrup, Organic Fig Paste, Organic Dried Cane Syrup, Organic Apple Juice Concentrate, Organic Blackcurrant Puree, Organic Blackberry Puree, Organic Raspberry Puree, and Organic Strawberry Puree	33g	130	9g	8g	24%	25%	Kids 4-8: 67% Kids 9-18: 32%
Awesome Orange	Organic Tapioca Syrup, Organic Cane Syrup, Organic Fig Paste, Organic Apple Juice Concentrate, Organic Apple Purée Concentrate, and Organic Dried Cane Syrup	33g	130	9g	8g	24%	25%	Kids 4-8: 67% Kids 9-18: 32%
Keen Green	Organic Tapioca Syrup, Organic Cane Syrup, Organic Fig Paste,	33g	130	9g	8g	24%	25%	Kids 4-8: 67% Kids 9-18: 32%

			Classic	Clif B	ars						
<ul> <li>Challenged Claim:</li> <li>"Nutrition for Sustained Energy"</li> </ul>											
Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g			
Apple Pear Strudel	Organic Brown Rice Syrup, Organic Toasted Oats containing Organic Evaporated Cane Juice, (more) Evaporated Cane Juice, White Soy Chocolate containing Organic Evaporated Cane Juice, Organic Date Paste	68g	240	22g	19g	28%	31%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%			
Apricot	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	240	23g	19g	28%	32%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%			
Berry Pom	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Dried Cane Syrup	68g	250	22g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%			

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Blueberry Crisp	Organic Brown Rice Syrup, Organic Cane Syrup, Concentrated Apple Puree, Organic Invert Sugar Syrup, Apple Juice Concentrate, Organic Glucose Syrup, Blueberry Puree, Elderberry Juice Concentrate	68g	250	22g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
Carrot Cake	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup	68g	250	25g	22g	31%	34%	Kids 4-8: 175% Kids 9-18: 84% Women: 84% Men: 75%
Chocolate Almond Fudge	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	260	20g	18g	26%	28%	Kids 4-8: 150% Kids 9-18: 72% Women: 72% Men: 47%
Chocolate Brownie	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	250	21g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
Chocolate Chip Peanut Crunch	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	260	20g	17g	25%	26%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%
Chocolate Chip	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	250	21g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Coconut Chocolate Chip	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup, Organic Dried Cane Syrup	68g	260	20g	17g	25%	26%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%
Cool Mint	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup	68g	250	20g	18g	26%	29%	Kids 4-8: 150% Kids 9-18: 72% Women: 72% Men: 47%
Crunchy Peanut Butter	Organic Brown Rice Syrup, Organic Cane Syrup,	68g	260	19g	17g	25%	26%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%
Hot Chocolate	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Organic Date Paste	68g	250	22g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
Iced Gingerbread	Organic Brown Rice Syrup, Organic Dried Cane Syrup	68g	250	23g	20g	29%	32%	Kids 4-8: 167% Kids 9-18: 80% Women: 80% Men: 53%
Nuts & Seeds	Organic Brown Rice Syrup, Organic Cane Syrup	68g	270	18g	17g	25%	25%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%
Oatmeal Raisin Walnut	Organic Brown Rice Syrup, Organic Cane Syrup, Molasses Powder	68g	250	21g	17g	25%	27%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%

Flavor	Added Sugars (in Order of Amount)	Serving Size	Calories Per Serving	Total Sugar	Added Sugar	Added Sugar by Weight	Added Sugar by Calories	Contribution of 1 Serving to AHA's Maximum Recommended Daily Intake (RDI) of Added Sugars Kids 4-8yrs: 12g Kids 9-18: <25g Women: 25g Men: 38g
Peanut Butter Banana with Dark Chocolate	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	260	21g	19g	28%	29%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
Peanut Toffee Buzz	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup, Organic Date Paste	68g	250	21g	18g	26%	29%	Kids 4-8: 150% Kids 9-18: 72% Women: 72% Men: 47%
Sierra Trail Mix	Organic Brown Rice Syrup, Organic Cane Syrup, Dried Cane Syrup	68g	250	22g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
Spiced Pumpkin Pie	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Date Paste, Organic Dried Cane Syrup	68g	250	23g	19g	28%	30%	Kids 4-8: 158% Kids 9-18: 76% Women: 76% Men: 50%
White Chocolate Macadamia Nut	Organic Brown Rice Syrup, Organic Cane Syrup, Organic Dried Cane Syrup	68g	260	21g	17g	25%	26%	Kids 4-8: 142% Kids 9-18: 68% Women: 68% Men: 45%

1	THE LAW OFFICE OF	
2	PAUL K. JOSEPH, PC	
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	Fax: (619) 362-9555	
15	Counsel for Plaintiffs and the Proposed Clas	S
16	UNITED STATES	DISTRICT COURT
16 17		DISTRICT COURT ICT OF CALIFORNIA
17	NORTHERN DISTR	
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17 18 19 20	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the	
17 18 19 20 21	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the general public,	ICT OF CALIFORNIA
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<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the general public, Plaintiffs,	ICT OF CALIFORNIA CONSUMERS LEGAL REMEDIES ACT VENUE AFFIDAVIT
<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> </ol>	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the general public, Plaintiffs, v.	ICT OF CALIFORNIA CONSUMERS LEGAL REMEDIES ACT VENUE AFFIDAVIT
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<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> </ol>	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the general public, Plaintiffs, v. CLIF BAR & COMPANY,	ICT OF CALIFORNIA CONSUMERS LEGAL REMEDIES ACT VENUE AFFIDAVIT
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<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> </ol>	NORTHERN DISTR RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on behalf of themselves, those similarly situated and the general public, V. CLIF BAR & COMPANY, Defendant.	ICT OF CALIFORNIA CONSUMERS LEGAL REMEDIES ACT VENUE AFFIDAVIT

I, Paul K. Joseph, declare as follows:

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I am an attorney with The Law Office of Paul K. Joseph, PC, counsel for
 Plaintiffs in this action. I am admitted to practice law in California and before this court, and
 a member in good standing of the state bar of California. This declaration is made pursuant
 to California Civil Code section 1780(d). I make this declaration based on my research of
 public records, and upon personal knowledge and, if called upon to do so, could and would
 testify competently thereto.

8 2. Defendant Clif Bar & Company has its principal place of business within the
9 County of Alameda, specifically in Emeryville.

3. The Complaint in this action is further filed in a proper place for the trial of this
action because Clif's principal place of business is within this district.

I declare under penalty of perjury under the laws of the United States and California
that the foregoing is true and correct the best of my knowledge.

Executed this 18th day of April, 2018, in San Diego, California.

<u>/s/ Paul K. Joseph</u> Paul K. Joseph

*Milan et al. v. Clif Bar & Company* Cal. Civ. Code § 1780(d) VENUE AFFIDAVIT

#### Case 3:18-cv-02354-JCSV Pocument 1-3 Filed 04/19/18 Page 1 of 2 JS-CAND 44 (Rev. 06/17)

The JS-CAND 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved in its original form by the Judicial Conference of the United States in September 1974, is required for the Clerk of Court to initiate the civil docket sheet. (SEE INSTRUCTIONS ON NEXT PAGE OF THIS FORM.)

	,								
I. (a) PLAINTIFFS RALPH MILAN, SARAH AQUINO, and ELIZABETH ARNOLD, on b of themselves, those similarly situated and the general public (b) County of Residence of First Listed Plaintiff (EXCEPT IN U.S. PLAINTIFF CASES)				DEFENDANTS CLIF BAR & C County of Residenc (IN U.S. PLAINTIFF C NOTE: IN LAND	COM ce of Fir CASES O	st Listed Def NLY)	fendant <sub>Alameda</sub>	County, California	
(c) Attorneys ( <i>Firm Name</i> , <i>A</i> The Law Office of Paul K. Joseph Diego, CA 92110; T:(619) 767-03 Suite 202, San Diego, CA 92103;	356; The Law Office of Jack Fitzg	· · · · · · · · · · · · · · · · · · ·	·		CT OF L	AND INVOLV		CATION OF	
II. BASIS OF JURIS	SDICTION (Place an "X" in	One Box Only)		<b>TZENSHIP OF PI</b> Diversity Cases Only)	RINCI	PAL PAR		X" in One Box for F ox for Defendant)	laintiff
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	(Indicate Citizenship of	<sup>e</sup> Parties in Item III)		n or Subject of a n Country	3		Foreign Nation	6	6
	UIT (Place an "X" in One Box (								
CONTRACT		RTS		FORFEITURE/PENA			KRUPTCY	OTHER STA	
110 Insurance 120 Marine 130 Miller Act	PERSONAL INJURY 310 Airplane 315 Airplane Product Liability	PERSONAL I 365 Personal Inju Liability		625 Drug Related Seiz Property 21 USC 690 Other			1 28 USC § 158 rawal 28 USC	375 False Clair 376 Qui Tam (3 § 3729(a))	31 USC
140 Negotiable Instrument	<ul> <li>320 Assault, Libel &amp; Slander</li> <li>330 Federal Employers' Liability</li> <li>340 Marine</li> <li>345 Marine Product Liability</li> <li>350 Motor Vehicle</li> <li>367 Health Care/ Pharmaceutical Per Injury Product Lial</li> <li>368 Asbestos Personal Product Liability</li> <li><b>PERSONAL PROPEI</b></li> <li><b>X</b> 370 Other Fraud</li> </ul>			LABOR		PROPERTY RIGHTS		400 State Reapportionment 410 Antitrust 430 Banks and Banking 450 Commerce 460 Deportation 470 Racketeer Influenced & Corrupt Organizations	
<ul> <li>150 Recovery of Overpayment Of Veteran's Benefits</li> <li>151 Medicare Act</li> <li>152 Recovery of Defaulted Student Loans (Excludes</li> </ul>			ct Liability sonal Injury vility	710 Fair Labor Standards Act 720 Labor/Management Relations 740 Railway Labor Act 751 Family and Medical		820 Copyrights 830 Patent 835 Patent—Abbreviated New Drug Application 840 Trademark			
Veterans) 153 Recovery of Overpayment of Veteran's Benefits	<ul> <li>355 Motor Vehicle Product Liability</li> <li>360 Other Personal Injury</li> <li>362 Personal Injury -Medical Malpractice</li> </ul>	371 Truth in Lend 380 Other Person Damage 385 Property Dan	al Property	Leave Act 790 Other Labor Litig 791 Employee Retiren Income Security /	nent Act	861 HIA (1 862 Black	L SECURITY 1395ff) Lung (923) /DIWW (405(g))	480 Consumer 490 Cable/Sat 7 850 Securities/ Exchange	Credit ГV
160 Stockholders' Suits	mapractice	Liability		IMMIGRATION	N	864 SSID		890 Other Statu	tory Actions

195 Contract Product Liab	CIVIL RIGHTS	PRISONER PETITIONS	462 Naturalization Application	865 RSI (405(g))	891 Agricultural Acts
196 Franchise	440 Other Civil Rights	HABEAS CORPUS	465 Other Immigration	FEDERAL TAX SUITS	893 Environmental Matters
REAL PROPERTY	441 Voting	463 Alien Detainee	Actions	870 Taxes (U.S. Plaintiff or	895 Freedom of Information Act
	442 Employment	510 Motions to Vacate		Defendant)	896 Arbitration
210 Land Condemnation	443 Housing/	Sentence		871 IRS-Third Party 26 USC	
220 Foreclosure	Accommodations	530 General		§ 7609	899 Administrative Procedure Act/Review or Appeal of
230 Rent Lease & Ejectme		535 Death Penalty			Agency Decision
240 Torts to Land	Employment	OTHER			950 Constitutionality of State
245 Tort Product Liability	446 Amer. w/Disabilities-Othe	540 Mandamus & Other			Statutes
290 All Other Real Proper	ty 448 Education	550 Civil Rights			
		555 Prison Condition			
		560 Civil Detainee-			
		Conditions of			
		Confinement			
VI. CAUSE OF ACTION	Cite the U.S. Civil Statute under 28 U.S.C. s. 1332(d)(2) (the Class	er which you are filing <i>(Do not c</i> Action Fairness Act)	ite jurisdictional statutes unless	diversity):	
	Brief description of cause:	on of California's UCL, FA	AL, CLRA); of Warrant	ies	
	Brief description of cause: False Advertising (Violati <b>D IN</b> CHECK IF THIS IS A	on of California's UCL, FA A CLASS ACTION DEM	AL, CLRA); of Warrant	CHECK YES only if dem JURY DEMAND:	anded in complaint:
VII. REQUESTE	Brief description of cause: False Advertising (Violati D IN ✓ CHECK IF THIS IS UNDER RULE 23, F ASE(S), IUDGE	on of California's UCL, FA A CLASS ACTION DEM		CHECK YES only if dem JURY DEMAND:	
VII. REQUESTE COMPLAIN VIII. RELATED C IF ANY (See	Brief description of cause: False Advertising (Violati D IN ✓ CHECK IF THIS IS UNDER RULE 23, F ASE(S), <i>JUDGE</i> LASSIGNMENT (Civil	on of California's UCL, FA A CLASS ACTION DEM ed. R. Civ. P. Local Rule 3-2)	AND \$	CHECK YES only if dem JURY DEMAND:	
VII. REQUESTE COMPLAIN VIII. RELATED C IF ANY (See	Brief description of cause: False Advertising (Violati D IN ✓ CHECK IF THIS IS UNDER RULE 23, F ASE(S), <i>JUDGE</i> LASSIGNMENT (Civil	on of California's UCL, FA A CLASS ACTION DEM ed. R. Civ. P.	AND \$	CHECK YES only if dem JURY DEMAND:	
VII. REQUESTE COMPLAIN VIII. RELATED C IF ANY (See IX. DIVISIONAL	Brief description of cause: False Advertising (Violati D IN ✓ CHECK IF THIS IS UNDER RULE 23, F ASE(S), <i>JUDGE</i> LASSIGNMENT (Civil	on of California's UCL, FA A CLASS ACTION DEM ed. R. Civ. P. Local Rule 3-2)	AND \$	CHECK YES only if dem JURY DEMAND:	X Yes No

SIGNATURE OF ATTORNEY OF RECORD

#### **INSTRUCTIONS FOR ATTORNEYS COMPLETING CIVIL COVER SHEET FORM JS-CAND 44**

Authority For Civil Cover Sheet. The JS-CAND 44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleading or other papers as required by law, except as provided by local rules of court. This form, approved in its original form by the Judicial Conference of the United States in September 1974, is required for the Clerk of Court to initiate the civil docket sheet. Consequently, a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. The attorney filing a case should complete the form as follows:

- **I. a) Plaintiffs-Defendants.** Enter names (last, first, middle initial) of plaintiff and defendant. If the plaintiff or defendant is a government agency, use only the full name or standard abbreviations. If the plaintiff or defendant is an official within a government agency, identify first the agency and then the official, giving both name and title.
- b) County of Residence. For each civil case filed, except U.S. plaintiff cases, enter the name of the county where the first listed plaintiff resides at the time of filing. In U.S. plaintiff cases, enter the name of the county in which the first listed defendant resides at the time of filing. (NOTE: In land condemnation cases, the county of residence of the "defendant" is the location of the tract of land involved.)
- c) Attorneys. Enter the firm name, address, telephone number, and attorney of record. If there are several attorneys, list them on an attachment, noting in this section "(see attachment)."
- **II. Jurisdiction.** The basis of jurisdiction is set forth under Federal Rule of Civil Procedure 8(a), which requires that jurisdictions be shown in pleadings. Place an "X" in one of the boxes. If there is more than one basis of jurisdiction, precedence is given in the order shown below.
  - (1) United States plaintiff. Jurisdiction based on 28 USC §§ 1345 and 1348. Suits by agencies and officers of the United States are included here.
  - (2) <u>United States defendant</u>. When the plaintiff is suing the United States, its officers or agencies, place an "X" in this box.
  - (3) Federal question. This refers to suits under 28 USC § 1331, where jurisdiction arises under the Constitution of the United States, an amendment to the Constitution, an act of Congress or a treaty of the United States. In cases where the U.S. is a party, the U.S. plaintiff or defendant code takes precedence, and box 1 or 2 should be marked.
  - (4) <u>Diversity of citizenship</u>. This refers to suits under 28 USC § 1332, where parties are citizens of different states. When Box 4 is checked, the citizenship of the different parties must be checked. (See Section III below; NOTE: federal question actions take precedence over diversity cases.)
- **III. Residence (citizenship) of Principal Parties.** This section of the JS-CAND 44 is to be completed if diversity of citizenship was indicated above. Mark this section for each principal party.
- **IV.** Nature of Suit. Place an "X" in the appropriate box. If the nature of suit cannot be determined, be sure the cause of action, in Section VI below, is sufficient to enable the deputy clerk or the statistical clerk(s) in the Administrative Office to determine the nature of suit. If the cause fits more than one nature of suit, select the most definitive.
- V. Origin. Place an "X" in one of the six boxes.
  - (1) Original Proceedings. Cases originating in the United States district courts.
  - (2) <u>Removed from State Court</u>. Proceedings initiated in state courts may be removed to the district courts under Title 28 USC § 1441. When the petition for removal is granted, check this box.
  - (3) <u>Remanded from Appellate Court</u>. Check this box for cases remanded to the district court for further action. Use the date of remand as the filing date.
  - (4) <u>Reinstated or Reopened</u>. Check this box for cases reinstated or reopened in the district court. Use the reopening date as the filing date.
  - (5) <u>Transferred from Another District</u>. For cases transferred under Title 28 USC § 1404(a). Do not use this for within district transfers or multidistrict litigation transfers.
  - (6) <u>Multidistrict Litigation Transfer</u>. Check this box when a multidistrict case is transferred into the district under authority of Title 28 USC § 1407. When this box is checked, do not check (5) above.
  - (8) <u>Multidistrict Litigation Direct File</u>. Check this box when a multidistrict litigation case is filed in the same district as the Master MDL docket.

Please note that there is no Origin Code 7. Origin Code 7 was used for historical records and is no longer relevant due to changes in statute.

- VI. Cause of Action. Report the civil statute directly related to the cause of action and give a brief description of the cause. Do not cite jurisdictional statutes unless diversity. Example: U.S. Civil Statute: 47 USC § 553. <u>Brief Description</u>: Unauthorized reception of cable service.
- VII. Requested in Complaint. Class Action. Place an "X" in this box if you are filing a class action under Federal Rule of Civil Procedure 23.

Demand. In this space enter the actual dollar amount being demanded or indicate other demand, such as a preliminary injunction.

Jury Demand. Check the appropriate box to indicate whether or not a jury is being demanded.

- VIII. Related Cases. This section of the JS-CAND 44 is used to identify related pending cases, if any. If there are related pending cases, insert the docket numbers and the corresponding judge names for such cases.
- IX. Divisional Assignment. If the Nature of Suit is under Property Rights or Prisoner Petitions or the matter is a Securities Class Action, leave this section blank. For all other cases, identify the divisional venue according to Civil Local Rule 3-2: "the county in which a substantial part of the events or omissions which give rise to the claim occurred or in which a substantial part of the property that is the subject of the action is situated."

Date and Attorney Signature. Date and sign the civil cover sheet.