

# Safer Choice Product Report

Prepared for: **All Mighty Green LLC**

Date: September 17, 2019

Product Trade Name: **Heavy Duty Dye Free**

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TPP Review Recommendation Number: TPP-RR-16187

Phase: 4

NSF has completed the review of your submitted product against criteria established by the U.S. EPA's Safer Choice Program, as published in the [Safer Choice Standard](#) (SCS). This report includes a Product Status Summary (Section 2.0), analysis of product-level information (Section 3.0), and individual ingredient profiles (Section 4.0).

Each ingredient has been assigned one of four statuses, defined as follows:

- **Acceptable profile:** The ingredient is acceptable for use in a Safer Choice labeled product. Corresponds to compounds with a green circle on the Safer Choice Program's [Safer Chemical Ingredients List](#) (SCIL) and in the [CleanGredients™](#) database.
- **Target for improvement (TFI):** The ingredient (or one or more of its components) has some environmental or human health concerns, and known safer alternatives can be found on the SCIL or CleanGredients™. TFI chemicals may be acceptable when functionally critical to the final product and present at the minimum amount necessary (as a guideline, the sum total of TFI and Green Chemistry Challenge chemicals is typically limited to 10% in the finished product as sold). Furthermore, the Safer Choice Partnership Agreement will require the partner to work towards substituting a safer alternative. Corresponds to compounds with a yellow triangle on the SCIL and CleanGredients™.
- **Green Chemistry Challenge (GCC):** The ingredient (or one or more of its components) has some environmental or human health concerns, however safer alternatives within the same functional class are not readily available. Safer Choice recognizes that these chemicals present an industry challenge. GCC chemicals may be acceptable when functionally critical to the final product and present at the minimum amount necessary (as a guideline, the sum total of TFI and GCC chemicals is typically limited to 10% in the finished product as sold). Furthermore, the Safer Choice Partnership Agreement will require the partner to work towards identifying safer alternatives. Corresponds to compounds with a yellow triangle on the SCIL and CleanGredients™.
- **Does not have an acceptable profile:** The ingredient is not acceptable for use in a Safer Choice labeled product as formulated. The product would not be eligible for recognition if the product contains this ingredient. Alternates may be found on the SCIL and CleanGredients™.

This review represents NSF International's recommendation to the Safer Choice Program. However, the Safer Choice Program makes the final decision on what products may carry the Safer Choice label. Please let us know if you have any questions, or would like to make any updates to the formulation, report, or supporting documents prior to submission to the Safer Choice Program.

# Safer Choice Product Report

<b>Product Name</b>	<b>Heavy Duty Dye Free</b>
NSF Control Code	FO02514
<b>NSF Status: Recommended for the Safer Choice label.</b>	
Review Type	Reinstatement
Ingredients that do not have an acceptable profile	None
Ingredients with inconclusive statuses - more information required	None
Green Chemistry Challenge ingredients	None
Target for Improvement ingredients	None
Product Category (Industrial / Institutional)	All-Purpose Cleaners; Degreasers; Kitchen/Countertop Cleaners; Odor Removers; Oven/Grill/Barbeque Cleaners; Parts Washers; Stainless Steel Cleaners; Other Industrial/Institutional Products
Concentrate	No
Product pH	Recommended pH (9.2-10.2) is within acceptable range of ( $\geq 2$ and $\leq 11.5$ ).

# Safer Choice Product Report

<p>VOCS (SCS, section 4.2.7.1)</p>	<p>Recommended</p> <p>VOC content = 0.0012%</p> <p>General purpose (non-aerosol) cleaners/degreasers are limited to 0.5% VOC content after dilution per CARB legislation.</p> <p>Acceptable - this product meets the VOC restrictions as prescribed by the Ozone Transport Commission and California Air Resources Board.</p>
<p>Flammability (SCS, section 4.2.8)</p>	<p>Recommended</p> <p>Flash point is within acceptable range (&gt; 60°C / 140°F) per SDS.</p>
<p>Renewals Only</p>	<p>Recommended</p> <p>Alternatives to Target for Improvement ingredients in Partnership Agreement considered? Yes</p> <p>Notes: All Mighty Green did not provide a continuous improvement statement, but no Target for Improvement ingredients are now present in this formulation.</p>
<p>Safer Choice/DfE Logo</p>	<p>Recommended</p> <p>Logo is present on product label.</p>
<p>Ingredients Disclosure (SCS, Section 3.8 and <a href="#">Ingredient Disclosure Guidance</a>)</p>	<p>Recommended</p> <p>Locus: Draft disclosure has been provided, Client confirmed, "Attached disclosure that will be posted on our new site that will be published next week."</p> <p>Missing ingredients: None</p> <p>Commodity ingredient CAS number provided and correct: Yes</p> <p>Commodity ingredient chemical description provided and correct: Yes</p> <p>Proprietary ingredient chemically descriptive names provided &amp; correct: Yes</p> <p>Acceptable listing order: Yes</p> <p>Informative fragrance reference provided: NA</p> <p>EU-listed sensitizers disclosed: NA</p>

# Safer Choice Product Report

<p>Use of Environmental Marketing Claims</p>	<p><b>Needs Safer Choice Review</b></p> <p>Environmental claim present on label: Yes Claim(s):</p> <ul style="list-style-type: none"> <li>• Powered by Bio Pure Technology</li> <li>• Environmentally conscious product</li> <li>• Non-toxic, biodegradable, and hypoallergenic</li> </ul> <p>Be aware that the language and any claims you make on the label are subject to FTC regulations and must be legally defensible, and that it is important that partners make their best efforts to comply with the FTC Green Guide restrictions. The Safer Choice label provides evidence that your product has a “safer” human and environmental health profile, but not that your product or its ingredients are “non-toxic” or “environmentally safe.” A more accurate statement might be “contains biodegradable surfactants” instead of “biodegradable.”</p> <p><b><i>Please note this does NOT constitute a review of the label or claims against the FTC criteria, and non-ingredient claims are outside the scope of the Safer Choice standard.</i></b></p>
<p>Safer Choice Program Disclaimer</p>	<p><b>Not recommended</b></p> <p>At the time of partnership, the following language must be provided on advertising materials: "EPA/Safer Choice recognition does not constitute endorsement of this product. The Safer Choice logo signifies that the product's formula, as [company name] has represented it to the EPA, contains ingredients with more positive human health and environmental characteristics than conventional products of the same type. EPA/Safer Choice relies solely on [the company name], its integrity and good faith, for information on the product's composition, ingredients and attributes. EPA/Safer Choice has not independently identified, that is, via chemical analysis, the ingredients in the product formula, nor evaluated any of [the company name's] non-ingredient claims. EPA/Safer Choice provides its evaluation only as to the product's human health and environmental characteristics, as specified in the Standard and based on currently available information and scientific understanding."</p>
<p>Performance Data (SCS, section 4.2.1)</p>	<p>Recommended</p> <p>Customer testimonials are available here: <a href="http://allmightygreen.com/recommendation-letters/">http://allmightygreen.com/recommendation-letters/</a></p>

# Safer Choice Product Report

<p>Sustainable Packaging Criteria (SCS, Section 4.2.6 and <a href="#">Packaging Guidance</a>)</p>	<p>Recommended</p> <p>Packaging material: HDPE</p> <p>___% is sourced, manufactured, transported, and recycled using renewable energy.</p> <p>___% optimizes the use of renewable or recycled source materials (e.g., contains recycled content or bio-based resins).</p> <p>___% is manufactured using clean production technologies and best practices.</p> <p>100% is made from materials healthful in all probable end-of-life scenarios (e.g., packaging is recyclable).</p> <p>___% is physically designed to optimize materials and energy.</p> <p>___% is effectively recovered and used in biological and/or industrial closed-loop cycles.</p> <p>Per: Letica Corporation; Consolidated Container Company</p>
<p>Packaging ingredients (SCS, Section 4.2.6 for unacceptable ingredients)</p>	<p>Recommended</p> <p>Per: Letica Corporation; Consolidated Container Company</p>

# Safer Choice Product Report

## Formulation

Ingredient Name/Common Name	CAS #	Class	Min %	Max %	Company Name	Distributor	TPP Status
Tomadol 900		Surfactant	0.920	0.920	Evonik Corporation	Brenntag Pacific	Acceptable
Sodium hydroxide	1310-73-2	Processing Aid and Additive	0.390	0.390	Clean Plus Chemicals		Acceptable
Water	7732-18-5	Solvent	94.210	94.210	Any		Acceptable
Trilon M		Chelant	0.150	0.150	BASF Corporation		Acceptable
eQi		Surfactant	2.750	2.750	Vitech International		Acceptable
LFQ		Surfactant	0.830	0.830	Vitech International		Acceptable
Acusol 445		Polymers	0.750	0.750	The Dow Chemical Company		Acceptable

# Safer Choice Product Report

## Status Comments

Ingredient Name/Common Name	NSF Status Comments
Tomadol 900	<p><b>Surfactant (0.92%)</b>  <u>Chemical Name:</u> Alcohols, C9-11, Ethoxylated  <u>CAS#:</u> 68439-46-3  <u>Trade Name:</u> Tomadol 900  <u>Supplier:</u> Evonik Corporation / Brenntag  <u>DCC#:</u> CG00761 / ES06197  <u>Status:</u> Acceptable Profile. Listed on CleanGredients, meets the Safer Choice surfactants criteria.  <u>Direct Release:</u> Does not meet the Direct Release Criteria.  <u>SCIL Status:</u> Proprietary ingredient, Safer Choice SCIL status not applicable.</p>
Sodium hydroxide	<p><b>pH Adjuster (0.39%)</b>  <u>Chemical Name:</u> Sodium Hydroxide  <u>CAS#:</u> 1310-73-2  <u>Trade Name:</u> CAUSTIC SODA 50% SOLUTION  <u>Supplier:</u> Clean Plus Chemicals  <u>Status:</u> Acceptable profile.  <u>Direct Release:</u> Meets the Direct Release Criteria.  <u>Fate:</u> Dissociates in water.  <u>Ecotoxicity:</u> Moderate toxicity based on LC50 of 40 mg/L in invertebrates.  <u>HH&amp;S:</u> Potential health effects are associated with its corrosive nature when used at high concentrations outside Safer Choice's acceptable pH range. Highly caustic or acidic formulations may cause severe irritation or burns to living tissue in humans.  <u>SCIL Status:</u> Listed as Green [Circle] under category(s) Processing Aid and Additive.</p>
Water	<p><b>Solvent (94.21%)</b>  <u>Chemical Name:</u> Water  <u>CAS#:</u> 7732-18-5  <u>Trade Name:</u> Water  <u>Supplier:</u> Any  <u>Status:</u> Acceptable profile.  <u>Direct Release:</u> Meets the Direct Release Criteria.  <u>SCIL Status:</u> Listed as Green [Circle] under category(s) Solvent.</p>
Trilon M	<p><b>Chelant (0.15%)</b>  <u>Chemical Name:</u> Alanine, N,N-bis(carboxymethyl)-, trisodium salt  <u>CAS#:</u> 164462-16-2  <u>Trade Name:</u> Trilon M Liquid  <u>Supplier:</u> BASF Corporation  <u>DCC#:</u> CG00336  <u>Status:</u> Acceptable Profile. Listed on CleanGredients.  <u>Direct Release:</u> Meets the Direct Release Criteria.  <u>SCIL Status:</u> Proprietary ingredient, Safer Choice SCIL status not applicable.</p>

# Safer Choice Product Report

Ingredient Name/Common Name	NSF Status Comments
eQi	<p><b>Surfactant (2.75%)</b>  <u>Chemical Name:</u> Proprietary  <u>CAS#:</u> PROPRIETARY  <u>Trade Name:</u> eQi  <u>Supplier:</u> Vitech International  <u>DCC#:</u> CG00835  <u>Status:</u> Acceptable for use in Safer Choice products and listing as a surfactant on CleanGredients.  <u>Direct Release:</u> Does not meet the Direct Release Criteria.  <u>SCIL Status:</u> Proprietary ingredient, Safer Choice SCIL status not applicable.</p>
LFQ	<p><b>Surfactant (0.83%)</b>  <u>Chemical Name:</u> Proprietary  <u>CAS#:</u> PROPRIETARY  <u>Trade Name:</u> LFQ  <u>Supplier:</u> Vitech International  <u>DCC#:</u> CG00838  <u>Status:</u> Acceptable for use in Safer Choice products and listing as a surfactant on CleanGredients with a maximum use limit of 7%.  <u>Direct Release:</u> Does not meet the Direct Release Criteria.  <u>SCIL Status:</u> Proprietary ingredient, Safer Choice SCIL status not applicable.</p>
Acusol 445	<p><b>Polymer (0.75%)</b>  <u>Chemical Name:</u> 2-Propenoic acid, telomer with sodium hydrogen sulfite  <u>CAS#:</u> 66019-18-9  <u>Trade Name:</u> Acusol 445 Polymer  <u>Supplier:</u> The Dow Chemical Company  <u>DCC#:</u> CG00853  <u>Status:</u> Acceptable Profile. Listed on CleanGredients with a maximum use limit of 67% in the final product as sold.  <u>Direct Release:</u> Does not meet the Direct Release Criteria.  <u>SCIL Status:</u> Proprietary ingredient, Safer Choice SCIL status not applicable.</p>