
1. Product and Company Identification

De-Oil-It, Ready-to-Use (RTU) Formula A Hydrocarbon cleaner and degrader

Principle Use: Cleans oils, fuels, and many types of grease

Description: Liquid

Note: Product is a pre-mixed (diluted as water is the activating agent; the default water to product ratio is 4:1 for 22ounce, 1gallon, 2.5 gallon; whereas 5gallon, 55gallon, and 275gallon vessels are custom pre-mixed according to client specifications. Contact us to discuss dilution ratios 1:1, 2:1, 3:1, 4:1, 5:1 are the most common and up to 30:1 dilution custom blend.

Owner Identification

Greenworld Innovation, Corp

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(407) 574-3898

2. Hazards Identification

Emergency Overview

Appearance: Light Opaque Liquid

Physical Hazards: None*

Health Hazards: None*

*hazard summary defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200

Potential Health Effects

General: This health hazard assessment is based on information from commercial and scientific literature. Keep product away from children.

Ingestion: Relative to other cleaning materials, this product is classified as “relatively non-toxic” (non poisonous). Ingestion treatment should consider strong alkaline procedures.

Eye Contact: Product can cause serious eye irritation and should be thoroughly flushed with potable water and then seek immediate medical attention.

Skin Contact: Product is alkaline and can cause dryness of the skin, rinse with potable water.

Skin Absorption: Not likely to be absorbed through skin.

Inhalation: Inhalation of vapors or mists might cause headaches, nausea and irritation of the nose, throat and lungs.

3. Composition / Information on Ingredients

Ingredient Type	%(w/w)	OSHA PEL
Emulsifier	-----	Not Listed
Solvent	-----	Not listed
Cleaning Agent	-----	Not listed
Solubilizer	-----	Not listed
Water	-----	Not listed

Ingredients not precisely identified are proprietary or non-hazardous
Values are not product specifications

Product exhibits surfactant action when treating soil hydrocarbon contamination / spill

Product exhibits emulsification of water oil contamination / spill

Product does not emulsify fuels of water oil contamination / spill (immediately removes)

Product does not contain solvents

Product does contain a solubilizer agent to prevent self-aggregation

Product is considered a liquid soap and as such it is a "cleaning agent"

4. First Aid Measures

Main Hazard: Product is a strong alkaline based chemical.

First Aid – EYES: Immediately flush with plenty of water, preferably potable water. After initial flushing, remove any contact lens and continue flushing for at least 15 minutes. During flushing contact emergency services (911) for precautionary measures, seek medical ER attention especially if in contact with concentrate (non-diluted).

First Aid – SKIN: Wash the material off the skin with soap and plenty of water. If redness or itching or a burning sensation, get medical attention; usually accidental contact with skin causes a dryness sensation.

First Aid – INGESTION: Do not induce vomiting as damage can occur in the esophagus and nasal passage way. An immediate 1-2 glass of water is necessary to dilute ingested materials. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

First Aid – INHALATION: Remove victim to fresh air. If cough or other respiratory symptoms develop, seek medical attention.

5. Fire Fighting Measures

<u>Flashpoint and Method:</u>	Will not flash
<u>Autoignition Temperature:</u>	Not applicable
<u>Boiling Point Temperature:</u>	620 F
<u>General Hazards:</u>	Product is non-flammable
<u>Fire Fighting Instructions:</u>	Use extinguishing media suitable for surrounding fire conditions.
<u>Fire Fighting Equipment:</u>	Self-containing breathing apparatus with full facepiece and protective clothing.
<u>Hazardous Combustion Products:</u>	None known

6. Accidental Release Measures

Light spill measures:

On hard surfaces:	Add water to dilute. Then mop up with cloth or paper towels to soak up. Throw away cloth / paper towels.
On soil surfaces:	Product has surfactant properties and typically will absorb into the soil. Add water to dilute.
On water:	Product should dilute with water and dissolve.

Heavy spill measures: (land or water; hard surfaces such as roads, parking lots)

Call local hazmat authorities for proper response that would be expect to follow various EPA defined guidelines. The product is not considered hazmat / hazardous but due to its strong alkaline base there might be environmental concerns. We recommend diluting the spill area with water to reduce adverse alkaline effects.

7. Handling and Storage

Handling: Avoid eye contact.

Avoid ingestion.

Avoid skin exposure to product

Storage: Product has unlimited shelf life

After uncapping please recap to prevent evaporation.

Diluted "application solution" (water : product ratio) also has unlimited shelf life

If the "application solution" has additives such as enzymes or microbes the shelf life will be determined by these additives and you will not have unlimited shelf life.

Recommended storage temperatures are between 40 F (5 deg C) and 121 F (60 C).

Keep product from freezing, this applies to concentrate and "application solution" (water : product ratio).

8. Exposure Controls/Personal Protection

Exposure Guidelines: No ACGIH TLV or OSHA PEL has been assigned to this product. Minimize exposure in accordance with good hygiene and safety practices .

ACGIH TLV - American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) The threshold limit value of a chemical substance is believed to be a level to which a worker can be exposed day after day for a working lifetime without adverse effects.

OSHA PEL – Occupational Safety and Health Administration (OSHA), Permissible Exposure Limits (PEL) is the maximum upper exposure legal limit to a hazardous substance exposure that an employee can be exposed to in an 8-hour period.

Engineering controls: Use ventilation adequate to maintain safe levels especially indoors.
Provide eyewash station and a safety shower in work area.

Respiratory Protection: Normally not needed if engineer controls are adequate.

Protective Clothing: Clothing adequate to protecting skin.

Eye Protection: Recommend goggles especially diluting / mixing and applying product.

9. Chemical and Physical Properties

Appearance: Relatively clear is slightly opaque

Boiling Point: 620 F (326 C)

Vapor Pressure: No measurable pressure

Vapor Density: Not applicable

Solubility in Water: Soluble

pH: Alkaline solution, less than concentrate; pH drops more in presence of hydrocarbon and the reaction process to degrade oils, fuels, etc..

Specific Gravity: 1.1959 @ 60 F (15 C), does not sink in water.

% volatile: Non-volatile

Nauseous Fumes: The product has an alcohol odor, advice to not inhale.

“Application solution” has a eucalyptus like odor, advice not to inhale.

Application Notes: Does not sink treated oil slicks on water.

Creates an emulsified layer of treated oil on water (does not sink oil!).

Immediately removes FLASHPOINT of hydrocarbons (fuel, oil, etc.).

Immediately removes nauseous fumes of hydrocarbons (fuel, oil, etc.).

Concentrate is not intended to be used alone; product requires dilution using water.

10. Stability and Reactivity

<u>Stability:</u>	Stable under normal conditions
<u>Incompatibility:</u>	None known
<u>Hazardous Decomposition Products:</u>	None Known
<u>Hazardous Polymerization:</u>	Will not occur

11. Toxicology Information

Possible human health effects:

Inhalation:	Inhalation of mists may cause irritation of respiratory passages
Skin Contact:	Can cause dryness of skin and possibly irritations
Eye Contact:	Will cause irritation of eyes, apply first aid immediately
Ingestion:	Seek medical attention, provide water, and do not induce vomiting.
Other effects:	Overexposure: none known but could cause chronic conditions.
Note to physician:	Treat as strong alkalinity exposure All ingredients while not on the GRAS list are classified as relatively non-toxic.

Possible health effects aquatic life:

Product action exhibits surfactant properties; this along with a strong alkalinity base is regarded in laboratories as the main cause of LD50 results. This applies certainly to the concentrate form; however, relative to other products on the market and on NCP list for example, this product is regarded as relatively moderately toxic in its "application solution" form (meaning diluted in a water : product ratio).

Possible health effects plant life:

There are no studies or laboratory reports relevant to product concentrate form exposure to plant life; however, due to the strong alkalinity base the concentrate form should be regarded as harmful to plant life. In the “application solution” form (water : product diluted ratio) there is a study whereby hydrocarbons were substantially reduced to negligent levels, grass re-grew, and cows grazed unharmed.

Possible health effects of animals:

Regard effects of animals to be similar to humans.

12. Ecological Information

When applied properly in an “application solution” (water : product dilution) has not shown harmful effects to aquatic life, wildlife or agriculture.

The pure form of the product, in concentrate form is not expected to be used as an “application solution” and therefore can cause considerable ecological harm mostly due to the strong alkalinity. This product requires dilution using water. Call to get assistance on dilution ratios.

Laboratory tests confirm “application solution” applied to hydrocarbons (oil, fuel) combined mixture averages low 8 pH range, over time and added water the combined mixture (“application solution” + hydrocarbon – oil, fuel, etc) averages high 7 pH. The optimal range for biodegrading is 7.2-7.8 but still performs well in low 8 pH range. The point is the product ingredients plus alkalinity is first responsible for breaking down hydrocarbons; after time, and additional soaking water the pH is optimized to promote biodegrading to complete the degrading of hydrocarbons to negligent to non-detect levels applied correctly.

13. Disposal Consideration

Disposal method: Discarded product is not a hazardous waste under RC, 40 CFR 261.

Container method: Empty containers not returned retains product residue. Observe all applicable hazard precautions. Do not distribute, make available, furnish or reuse empty containers except for storage and shipment of original product. Remove all product residues from container and puncture or otherwise destroy. We encourage you to find an authorized recycler.

Returning container: Under certain conditions we are able to approve returning containers to be re-used for new batches of product. We will handle the residue cleaning if part of the contract.

14. Transportation Information

DOT Hazard Description: Not regulated

Domestic USA transportation code: NMFC Code 48580-3, class 70

International HS code: 3402.90.90

NMFC- National Motor Freight Classification; HS – Harmonized System Code

15. Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710

All product ingredients are listed on the TSCA Chemical Substances inventory and are all regarded as non-toxi

CERLA (Comprehensive Environmental Response, Compensation, and Liability Act) and SARA (Superfund Amendments and Reauthorization Act) regulations, 40 CFR 355, 370, 372

This product does not contain any chemicals subject to the reporting requirements under CERLA / SARA

California Proposition 65

Officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986

This product does not contain any chemical that would cause cancer or reproductive harm as required listing under CP-65

GRAS (Generally Regarded as Safe)

Not on list as this product is not intended to be part of Food, Drug or Cosmetic products.

Basic Product Purpose

This product is a kind of liquid soap that has shown to degrade, break down and “eat” oil / fuel

16. Other Information

This information is given in good faith.

HMIS is intended for everyday safety, while **NFPA** is intended for safety during emergency situations, especially fires.

HMIS - was developed by the National Paint and Coatings Association (NPCA), A Homeless Management Information System (**HMIS**) is a local information technology system **used to** collect client-level data and data on the provision of housing and services to homeless individuals and families and persons at risk of homelessness

NFPA -The National Fire Protection Association, has developed a system for indicating the health, flammability and reactivity hazards of chemicals. In addition, a special precaution symbol may be used where necessary.

HMIS and NFPA Ratings

<u>Hazard:</u>	<u>HMIS Ratings:</u>	<u>NFPA Ratings:</u>
<u>Health:</u>	1	1
<u>Flammability:</u>	0	0
<u>Reactivity:</u>	0	0

HMIS and NFPA Hazard Rating Codes:

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

TRADE NAMES

ecoSpersa is the generic factory name for this product. It is manufactured for other companies under various trade names such as, but not limited to: Petro Buster, De-Oil-It, De-Grease-It, Malone 98.