

Safety Data Sheet

Issue Date: 18-August-2016

Revision Date:

Version 1

1. IDENTIFICATION

Product Identifier

Product Name GreenOx Orange Blast Cleaner & Degreaser

Other means of identification

SDS # GOB08152016

Recommended use of the chemical and restrictions on use

Recommended Use: Heavy duty industrial cleaner.

Details of the supplier of the safety data sheet

Manufacturer Address

Greenflow Distribution Inc.
1038 Legrand Blvd
Charleston, SC 29492

Emergency Telephone Number

Company Phone Number (866) 308-2734
Emergency Telephone (24 hr.) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Clear

Physical State: Liquid

Odor: Citrus

GHS Ratings

Skin corrosion / irritation	Category 1, Sub-category B
Serious eye damage / eye irritation	Category 1
Met. Corr. 1	

Signal Word

Danger

Hazard Statements



GHS Hazards:

H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H290	May be corrosive to metals

GHS Precautions:

P233	Keep container tightly close
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P321	Specific treatment (see First Aid below or label)
P331	Do not induce vomiting
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with Water/shower
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P370+P378	In case of fire: Use Section 5 recommendations for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in conformance with State, Local, and Federal regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Citrus, Extract	Proprietary	1 - 5
Alkylpolyglycoside	Proprietary	10 – 15
Glycol Ether EB	111-76-2	5 – 10
Amine, coco Alkylmethyl, N-oxides	61788-90-7	5 – 10
Sodium Xylenesulfonate	1300-72-7	5 - 10
45% Potassium Hydroxide	1310-58-3	5 - 10
Sodium Metasilicate Anhydrous	6834-92-0	1 - 5
Water	7732-18-5	Balance

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

4. FIRST-AID MEASURES

After inhalation: Supply fresh air, consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

After eye contact: Remove contact lenses if worn. Rinse opened eye several minutes under running water. If symptoms persist, consult a doctor.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Information for doctor: Most important symptoms and effects, both acute and delayed. Allergic reactions Irritant to skin and mucous membranes Dizziness, Breathing difficulty. Gastric or intestinal disorders.

Danger:

Danger of impaired breathing. Repeated exposure may cause skin dryness or cracking. May be fatal if swallowed and enters airways. May cause drowsiness. Danger of pulmonary edema. Danger of pneumonia. Indication of any immediate medical attention and special treatment needed: If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering lungs. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Treat skin and mucous membrane with antihistamine and corticoid preparations. May produce an allergic reaction.

5. FIRE-FIGHTING MEASURES

Flash Point: 140°F

LEL: 1.00

UEL: 6.00

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Suitable extinguishing agents: CO2, sand, extinguishing powder.

Unsuitable Extinguishing Media: Water or water stream.

Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Eliminate all ignition sources if safe to do so. Cool endangered receptacles with water fog.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8. Keep unprotected persons away.

Environmental Precautions See Section 12 for additional Ecological Information. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Methods for Containment Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Pick up mechanically. Send for recovery or disposal in suitable receptacles.

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal Protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Keep away from ignition sources. Protect from heat and direct sunlight. Prevent formation of aerosols. Use in only well ventilated areas. Avoid splashes or spray in enclosed areas. Rags, metal wools / cuttings /shavings and waste papers soaked with the product must be placed in a sealed metal container rated for flammable waste.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from direct sunlight. Do not store near combustible materials. Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	ACGIH TWA (ppm)
Citrus, extract Proprietary	Not Established	Not Established	Not Established

Appropriate engineering controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses

Skin and Body Protection

Rubber or neoprene footwear. Impervious clothing or apron materials such as rubber, neoprene, nitrile or polyvinyl chloride. Wear liquid proof rubber or neoprene gloves. Thoroughly rinse the outside of gloves with water prior.

Respiratory Protection

Not required under normal conditions of use. Whenever workplace conditions warrant the use of a respirator, a respirator protection program meeting OSHA 1910.134 must be followed utilizing a NIOSH/MSHA- approved respirator. Wear mist eliminating mask if spray mist is a problem.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Citrus
Appearance	Clear	Odor Threshold	Not determined
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.5 – 12.5	
Melting Point/Freezing Point	-140°F	
Boiling Point	176°F	
Flash Point	140°F	
Evaporation Rate	0.2	
Flammability (Solid, Gas)	Exception Section CFR 173.50 applies	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.070	(Water = 1) @ 20°C (68°F)
Water Solubility	Emulsifiable	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Poor ventilation.

Incompatible Materials

Strong acids. Strong oxidizing agents and strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride.

Hazardous Decomposition Products

Carbon monoxide and other toxic vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Eye Contact** Avoid contact with eyes.
- Skin Contact** May cause an allergic skin reaction.
- Inhalation** Avoid breathing vapors or mists.
- Ingestion** Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Amines, coco alkydimethyl, N-oxides 61788-90-7	LD50 (Rat) Dose: > 2,000 mg/kg Method: OECD Test Guideline 401	LD50 (Rabbit) > 2000 mg/kg	n/a
Citrus, Extract Proprietary	4400 mg/kg body weight (Rat)	>5000 mg/kg body weight (Rabbit)	n/a

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction.

Carcinogenicity Not classified

Chemical Name	ACGIH	IARC	NTP	OSHA

Legend

- ACGIH (American Conference of Governmental Industrial Hygienists)**
- A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)**
- Group 1 - Carcinogenic to Humans
- NTP (National Toxicology Program)**
- Known - Known Carcinogen
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
- X - Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Highly toxic to fish. Very toxic to invertebrates (Daphnia). Slightly harmful to algae (EC50 (72h): 100 – 1000 mg/l). Ph SHIFT.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea

Citrus, Extract Proprietary	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72h; Desmodesmus subspicatus; Staticsystem; Fresh water; Read-across)	720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)		0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48h; Daphnia magna; Static system; Fresh water; Experimental value)

Persistence/Degradability

Readily biodegradable in water. Forming sediments in water. Absorbs into the soil.

Bioaccumulation

Citrus, Extract	
BCF Fish 1	864.8 – 1022 (BCF; Pisces)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37°C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).

Mobility in soil

Chemical Name	Log Koc
Citrus, Extract Proprietary	Koc, SRC PCKOCWIN v2.0; 1120 – 6324; QSAR

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Terpene Hydrocarbons N.O.S. (containing Citrus Extract). UN Number: 2319. Packing Group 3. Hazard Class 3.
<u>DOTMQ</u>	Compound, Cleaning, Liquid, (Not Regulated) Limited Quantity Section 173.150. 66 lbs.
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

Listed on the United States TSCA Inventory.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	2	1	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	2	1	D

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet