

Safety Data Sheet

Issue Date: 01-Oct-2016

Revision Date:

Version 1

1. IDENTIFICATION

Product Identifier

Product Name CrystalOx Granular

Other means of identification

SDS # COG102016

Recommended use of the chemical and restrictions on use

Recommended Use Cleaner & Stain Remover.

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: White powder

Physical State: Solid

Odor: Odorless

Classification

Causes skin irritation	Category 2
Causes serious eye damage	Category 1
Acute toxicity - inhalation	Category 4, Harmful if inhaled
Acute toxicity - oral	Category 4, Harmful if swallowed
Specific target organ toxicity, single exposure	Category 3
Sensitization	Not classified as a dermal sensitizer according to GHS criteria. This material when applied to the skin of guinea did not elicit any dermal sensitization reaction.
Acute toxicity – Dermal	Not classified as acutely toxic for dermal exposure.
Carcinogenicity	This product is not classified as a carcinogen by NTP, IARC or OSHA.
Hazardous to aquatic environment – acute hazard	Category 3, Harmful to aquatic life.
May intensify fire; oxidizer	H272
Harmful if swallowed	H302
Causes serious eye damage	H318

Signal Word**Danger****Hazard Statements**

Harmful if swallowed. Causes serious eye damage. Causes skin irritation. Harmful if inhaled. May cause respiratory irritation. May intensify fire; Oxidizer

Environmental Hazard Statement(s)

Harmful to aquatic life.

**Precautionary Statements - Prevention**

Keep away from heat. Keep / store away from clothing and other combustible materials. Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or physician if you feel unwell.

Precautionary Statements - Storage

Store locked up. Store in well ventilated place.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations.

Other Hazards

None know

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Percarbonate	15630-89-4	50% to 80%
Proprietary		30% to 50%

**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

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms and effects

Symptoms	Causes skin irritation. Respiratory irritation. Upper airway irritation, may cause cough, redness of mouth and upper airways. Eye irritation: exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately. Gastrointestinal system effects: slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death Prolonged exposure may cause chronic effects.
Delayed Symptoms / Effects	Repeated or prolonged contact may result in dermatitis
Notes to Physician	Treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Flood with water for extinguishing agent. CO2 may provide limited control.
Fire Fighting	Move container from fire area if it can be done without risk. Avoid inhalation of Materials or combustible by-products. Stay upwind and keep out of low areas.
Hazardous Combustion Products	Oxides of carbon
Specific Exposure Hazards	Oxidizing substances can be decomposed by water and direct sources of heat. Decomposition releases oxygen which can support combustion.
Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive
Special safety equipment:	Self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or Equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection recommended in Section 8. Keep unprotected persons away. Keep people away from and upwind of spill/leak. Do not breathe mist or vapor. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental Precautions	This material is harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

Methods and material for Containment and cleaning up

Shovel dry material into suitable container. Flush spill area with water, if appropriate.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Provide adequate ventilation. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Avoid prolonged exposure. Do not taste or swallow. When using do not eat, drink or smoke. Observe good industrial hygiene practices.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near combustible materials. Protect from sunlight. Store locked up. Store away from incompatible materials (see Section 10 of this SDS).
Incompatible Materials	Acids, Lime, Prolonged contact with aluminum, brass, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines None

Engineering Controls Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin and Body Protection	Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and washed before reuse. Wear appropriate chemical resistant gloves.
Respiratory Protection	A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.
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. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	
Appearance	White solid	Odor
Color	White, with blue crystals	Odor Th

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH (3% solution)	10.5	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not applicable	
Flammability (Solid, Gas)	Not applicable	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not applicable	
Vapor Density	Not determined	
Relative Density/Specific Gravity	0.9 – 1.2 g/cm ³ (water=1)	
Water Solubility	100%	
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	
Hygroscopic	Yes	

10. STABILITY AND REACTIVITY

Reactivity

Not reactivity under normal temperatures and pressures.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Avoid contact with lime.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid

None know

Incompatible Materials

Acids. Lime. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

Hazardous Decomposition Products

Carbon oxides and other oxides

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

- Eye Contact** Causes severe eye damage.
- Skin Contact** Exposure to skin may cause redness, irritation.
- Inhalation** Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways.
- Ingestion** Do not ingest. Harmful if swallowed.
- Chronic Effects** Repeated or prolonged contact may result in dermatitis.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Percarbonate	2400 mg/kg (Rat)	2000 mg/kg (Rabbit)	4580 mg/kg (rat)

Signs and Symptoms of Exposure

None know

12. ECOLOGICAL INFORMATION

Ecotoxicity Data

Fish Toxicity

LC50 Pimephales promelas: 70.7 mg/l (96 hour)

LC50 Pimephales promelas: NOEC, mg/l (96 hour)

LC50 Danio rerio (zebra fish): >500 mg/l, (96 hour)

Crustaceans Toxicity

EC50 Daphnia pulex: 4,9 mg/l

EC50 Daphnia pulex: NOEC (48 hour)- 1mg/l

Persistence/Degradability

Believed not to persist in the environment.

Bioaccumulation

Believed not to bio accumulate.

Mobility

Not determined

Other Adverse Effects

This material is harmful to aquatic life. May increase pH of waterways and adversely affect aquatic life.

Dissolved organic carbon

(DOC): 435 mg/g

Chemical oxygen demand

(COD): 1260 mg/g

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	This material is not a hazardous waste according to Federal regulations (40 CFR 261).
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
California hazardous waste code	352
Waste from residual / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe manner (see Disposal instructions).
Contaminated packaging	Since emptied may retain product residual, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION**DOT:**

Yes: Shipped with Limited
Quantity

Proper Shipping Name:

Not Applicable

Hazard Class:

Not Applicable

TDG:

Yes: Shipped with Limited
Quantity

MEX:

Not Applicable

ICAO:

Yes: Shipped with Limited
Quantity

IATA:

Not Applicable

IMDG/IMO:

Yes: Shipped with Limited
Quantity

RID:

Not Applicable

ADR:

Not Applicable

AND:

Not Applicable

This corrosive material, as per 49 CFR 173.154 and when the product meets the packaging requirements of 49 CFR 183.154 (b)(2) [inner packagings not over 5.0 kg. (11lbs) net capacity each for, and packed in strong outer packagings] is excepted from labeling and placarding requirements so long as the material is not offered for transport by aircraft.

15. REGULATORY INFORMATION**U.S. REGULATIONS****CERCLA SECTIONS 102a HAZARDOUS SUBSTANCES (40 CFR 302.4)**

Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting Act and Title 40 CFR, part 372.

Sara 311/312 Hazard Categories:

Yes

Chronic Health Hazard: No

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: Yes

DEPARTMENT OF HOMELAND SECURITY (DHS) – Chemical Facility Anti-Terrorism Standards (6 CFR 27)

No components in this material are regulated under DHS

OSHA PROCESS SAFETY (PSM) (40 CFR 1910.119)

Not regulated

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or Exempt.

TSCA 12(b): This product is not subject to export notification.

Canadian Regulations:

Canadian Chemical Inventory: All components of this product are listed on either DSL or the NDSL.

Canadian WHMIS Classification: C Oxidizing Material. D2B Toxic Substance Causing Other Effects Eye Irritation, Skin Irritation.

Health Canada DIN: Complies

Canadian DSL: Complies

STATE REGULATIONS**California Proposition 65:**

This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

CWA (Clean Water Act):

This product does not contain any substances which are regulated pollutants to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
	X				

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	1	
<u>HMS</u>	Health Hazards	Flammability	Physical Hazards	
	2	0	1	

Personal Protection Class: B

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Revision Note: New format

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