

MATERIAL SAFETY DATA SHEET

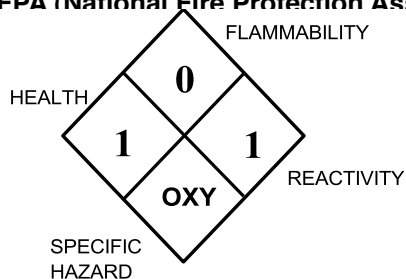
To conform to OSHA Hazard Communications Standard 29 CFR 1910.1200

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Nochromix® - Crystals	Chemical Formulation:	Proprietary*
Chemical Family:	Peroxygen	Telephone:	(301) 320-6763
Manufacturer:	Godax Laboratories, Inc.	Fax:	(301) 320-6654
	P.O. Box 422	Internet Address:	www.godax.com
	Cabin John, MD 20818	Emergency:	(240) 505-4178

2. HAZARD RATING

NFPA (National Fire Protection Association) Designation 704



4 = Severe
3 = High
2 = Moderate
1 = Slight
0 = Insignificant
OXY = Oxidizer

HMIS Rating (Hazardous Material Identification System)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	1
PROTECTION	J

J = Safety goggles, gloves, apron, and combination dust & vapor respirator

EC Risk Phrases

Risk Phrase: R8, 22, 36, 37, 38, 42, 43

- R8 - Contact with combustible material may cause fire
- R22 - Harmful if swallowed
- R36,37,38 - Irritating to eyes, respiratory system and skin
- R42,43 - May cause sensitization by inhalation or by skin contact

Safety Phrases: S2,22,24,26,37

- S2 - Keep out of reach of children
- S22 - Do not breathe dust
- S24 - Avoid contact with skin
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S37 - Wear suitable gloves

3. EMERGENCY OVERVIEW

Oxidizer

Decomposes in storage under conditions of excessive heat and/or moisture (water/water vapor) causing release of oxides of sulfur, nitrogen and oxygen that support combustion. On decomposition releases oxygen that may intensify fire. Decomposition could form a high temperature melt. Product is non-combustible.

Potential Health Effects

Moderate oral toxicity. Airborne dust may be irritating to eyes, nose, lungs, throat and skin upon contact. Continuous contact may irritate skin. Exposure to high levels of dust may cause difficulty breathing in sensitive persons.

Primary Routes of Entry (exposure)

Inhalation (breathing dust), skin and eye contact.

Target Organs

Upper respiratory passages, eyes, nose, throat, lungs and skin.

Effects from Overexposure

Dust may be harmful and irritating, especially to the eyes. Nochromix has low dermal toxicity, but is moderately toxic when ingested.

Chronic (long term) Effects from Overexposure

Sensitive persons may develop dermatitis and asthma (Respiration 38:144, 1979).

4. EMERGENCY AND FIRST AID MEASURES

Eyes

Flush immediately with water for at least 15 minutes, lifting upper and lower lids. If irritation occurs and persists, see a physician.

Skin

Wash thoroughly with soap and large amounts of water. If irritation occurs and persists, see a physician.

Inhalation

Remove person to fresh air. If there is breathing difficulty or discomfort occurs and persists, call a physician.

Ingestion

Do not induce vomiting. Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not give anything by mouth to an unconscious person. See a physician immediately.

Notes to Physician

Product has moderate oral toxicity and causes irritation to the eyes. It is suggested to flood exposed areas with water, but gastric lavage or emesis induction for ingestions must take into account the possible aggravation of esophageal injury and the expected absence of systemic effects. Treatment is controlled removal of exposure followed by supportive and symptomatic care. Call emergency number if more information is needed.

5. PERSONAL PROTECTION AND EXPOSURE CONTROLS

Control Measures

Provide mechanical local and/or general room ventilation to prevent release of dust into the work area. Remove contaminated clothing immediately and wash before reuse.

Recommended Personal Protective Equipment

Respiratory: Use approved dust respirator when airborne dust is expected.

Eyes and Face: Use cup type chemical goggles. Full-face shield may be used.

Special Clothing: Normal work clothes.

Gloves: Wear chemical protective gloves made of materials such as neoprene or viton. Wash outside of glove with soap and water before removal. Inspect periodically for leaks.

6. FIRE HAZARD AND FIRE-FIGHTING MEASURES

Fire and Explosion Hazard

Product is non-combustible. Oxygen is released on decomposition, which may intensify fire.

Presence of water accelerates decomposition.

Hazardous Decomposition Products

Release of oxides of sulfur, nitrogen and oxygen that supports combustion.

Extinguishing Media

Deluge with large quantities of water.

Special Fire Fighting Procedures

Do not use carbon dioxide or other gas-filled extinguishers; they will have no effect on decomposing persulfates. Wear full protective clothing and self-contained breathing apparatus.

Auto Ignition Temperature

N/A. No evidence of combustion up to 800° C. Decomposition will occur upon heating.

Flammable Limits

Non combustible.

7. REACTIVITY AND STABILITY

Conditions to avoid

Heat, moisture, strong reducing agents.

Stability

Stable (becomes unstable in presence of heat, moisture and contamination).

Materials to Avoid

Heavy metals, strong reducing agents, organic materials, powdered metals.

Incompatibility

Nitric acid, hydrochloric acid, alkalis, halides (fluorides, chlorides, bromides), heavy metals, silver salts, oxidizable materials, combustible materials, reducing agents and organic compounds.

Hazardous Decomposition Products

Oxygen that supports combustion and oxides of sulfur and nitrogen.

Polymerization

Will not occur.

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystals
Odor:	None
Melting Point:	Decomposes @ 175° C
Specific Gravity (H₂O=1)	1.98
pH (1% solution)	Usually 4

Melting/Freezing Point: Decomposes
Solubility in H₂O: % by Wt: 5 by wt. @ 25° C (77° F): 85
Flash Point: Non Combustible
Oxidizing Properties: Oxidizer
Auto Ignition Temperature: N/A - No evidence of combustion up to 800° C
Decomposition will occur upon heating
Comments: Self Accelerating Decomposition Temperature (SADT) > 80° C (225 lb. drum)

9. TOXICOLOGICAL INFORMATION

IARC, NTP, OSHA, ACHIG

Not listed

10. HANDLING AND STORAGE

Storage

Store unopened in a cool, clean, dry well-ventilated place away from point sources of heat (e.g. radiant heater or steam pipes). Keep away from combustible material. Do not smoke. Avoid contamination of opened product. If possible reseal product airtight in original pouch. May decompose on exposure to moist air or water. Stable under recommended storage conditions. In case of fire or decomposition (fuming/smoking) deluge with plenty of water to control decomposition. For storage refer to NFPA Bulletin 430 on storage of oxidizing materials. NFPA Hazard Class 1 oxidizer.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – nitrogen oxides (NO_x), Sulphur oxides.

11. PROCEDURE FOR ACCIDENTAL RELEASE OR SPILL AND DISPOSAL CONSIDERATIONS

Spilled material should be put into an approved DOT container (polyethylene-lined fiber container) and isolated for disposal. Pick up and arrange material for disposal without creating dust. Isolated material should be monitored for signs of decomposition (fuming/smoking). If spilled material is wet, dissolve with large quantities of water and allow to stand until it has lost its oxidative potential. After total decomposition, product should be neutralized and should be disposed of as a hazardous waste in accordance with all local, state and federal environmental laws, regulations and standards. Because acceptable methods of disposal may vary by location, and because regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal. It is recommended to contact a licensed professional waste disposal service to dispose this material.

12. ECOLOGICAL INFORMATION

Chemical Fate Information

Biodegradability does not apply to inorganic substances

13. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT) Classification

Primary Hazard Class/Division, Placards, Labels: 5.1 (Oxidizer)

Packing Group: III

Reportable Quantity (RQ): N/A

Special Precautions to be Taken: Keep material cool and dry. Do not store near acids, moisture or heat. Protect from physical damage. Ship in refrigerated trucks when outside temperature exceeds 113° F.

14. REGULATORY INFORMATION (UNITED STATES)

SARA TITLE 111 (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Section 302 Extremely Hazardous Substances (40 CFR 355, app. A): Not listed

Section 311 Hazard Categories (40 CFR 370): Fire Hazard, Immediate (acute) Health Hazard

Section 312 Threshold Planning Quantity (40 CFR 370): The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with TPQ of less than 10,000 lbs: None

Section 313 Reportable Ingredients (40 CFR 372): Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

Cercla Designation & Reportable Quantities (RQ) (40 CFR 302.4): Unlisted RQ = 100 lbs., Ignitability

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Inventory Status (40 CFR 710): Listed

RCRA (RESOURCE CONSERVATION AND RECOVERY ACT)

RCRA Identification of Hazardous Waste (40 CFR 261): Waste Number- D001

TO WHOM IT MAY CONCERN

This is to certify that NOCHROMIX® glass cleaning compound, manufactured by Godax Laboratories, Inc., is a confidential composition covered under the "Trade Secret" disclosure. The ingredients are listed in the Chemical Abstract Register as well as the EPA TSCA Inventory List. The compound contains no "hazardous" substances above the rating of "1" (slight).

In case of medical emergency, the material will be identified where the treating physician so requests. Subsequently, a written statement is to be signed to keep the information confidential, to prevent disclosure of the Trade Secret.

In non-emergency situations, the request for information must be in writing and must describe with reasonable detail the medical or occupational health need for the information. The request of a health official will be considered if the information will be used for one or more of the following activities:

- To assess the hazards of the chemicals to which employees will be exposed.
- To conduct or assess sampling of the work place atmosphere to determine employee exposure levels.
- To conduct pre-assignment or periodic surveillance of exposed employees.
- To provide medical treatment to exposed employees.
- To select or assess appropriate personal protective equipment for exposed employees.
- To design or assess engineering controls or other protective measures for exposed employees.
- To conduct studies to determine the health effect of exposure.

The health professional must also specify why alternative information is insufficient, and include the procedures to be used to protect the confidentiality of the information. It must include an agreement not to use the information for any purpose other than the health need stated nor release it under any circumstances except to OSHA.

NOTE: Godax Laboratories believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. Godax Laboratories, Inc. furnishes the data contained herein in good faith at the customer's request and without liability or legal responsibility for same whatsoever and no warranty or guarantee expressed or implied is made with respect to such data. The MSDS cannot include information on every unique application of the material, but considers the hazardous exposure resulting from customary, reasonable, and foreseeable occupational use or misuse in handling and storage. The MSDS furnished is for the NOCHROMIX® Crystals only, as supplied by the manufacturer. The data is offered solely for your information and consideration. User assumes all responsibility and risk.

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