

Material Safety Data Sheet: GRANULAR SEWER and DRAIN CLEANER

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name GRANULAR SEWER and DRAIN CLEANER

Product Code 4416C

Recommended Use Use in drains

Chemical Nature Mixture of inorganic salts

Information on Manufacturer

Emergency Telephone Number

CARROLL COMPANY

INFOTRAC® Inc. 800-535-5053

2900 West Kingsley Road, Garland, TX 75041

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Poison

Water reactive substance. Reacts with water to release flammable gas. May cause fire

Oxidizing agent

Corrosive

Causes skin and eye burns

Harmful if inhaled and may cause delayed lung injury

Harmful or fatal if swallowed

Color Blue

Physical State Granular

Odor Odorless

Potential Health Effects

Principle Route of Exposure

Skin contact, Eye contact, Inhalation.

Primary Routes of Entry

Inhalation

Acute Effects

Eyes

Corrosive to the eyes and may cause severe damage including blindness.

Skin

Causes skin burns.

Inhalation

Harmful by inhalation. Causes burns.

Ingestion

Harmful or fatal if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Components of the product create formation of methemoglobin.

Chronic Toxicity

Harmful if inhaled and may cause delayed lung injury

Target Organ Effects

Eyes, Skin, Respiratory system, Central Nervous System, Cardiovascular system, Blood.

Aggravated Medical Conditions

Skin disorders, Respiratory disorders, Neurological disorders.

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium hydroxide	1310-73-2	40-70
Petroleum distillates, hydrotreated light	64742-47-8	1-5
Aluminum	7429-90-5	3-7
Sodium nitrate	7631-99-4	15-40

4. FIRST AID MEASURES

General Advice

Do not get in eyes, on skin or on clothing. Avoid breathing dust.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact

Remove immediately all contaminated clothing. Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Ingestion

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician

The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point The product is not flammable **Method** Not applicable
Autoignition Temperature No information available.
Flammability Limits in Air % Hydrogen. **Upper** 75 **Lower** 4
Suitable Extinguishing Media
 Dry chemical.
Unsuitable Extinguishing Media
 None known.

Specific hazards arising from the chemical
 Contact with metals liberates hydrogen gas. Water reactive.

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.

NFPA **Health** 3 **Flammability** 1 **Instability** 1 **Other** Water Reactive
HMIS **Health** 3 **Flammability** 1 **Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective gloves/clothing. Avoid contact with skin, eyes, and clothing. Avoid breathing dust.
Environmental Precautions Prevent further leakage or spillage if safe to do so.
Methods for Containment Cover powder spill with plastic sheet or tarp to minimize spreading.
Methods for Cleaning Up Pick up and transfer to properly labeled containers.
Neutralizing Agent Acetic acid, diluted. Wear suitable protective clothing, gloves and eye/face protection.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe vapors/dust. Avoid dust formation.
Storage Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Metal containers must be lined. Do not freeze.
Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	2 mg/m ³ Ceiling	2 mg/m ³ TWA	10 mg/m ³ IDLH : 2 mg/m ³ Ceiling
Petroleum distillates, hydrotreated light	5 mg/m ³ as oil mist	10 mg/m ³ as oil mist	No data available
Aluminum	1 mg/m ³ TWA (respirable fraction)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust) : 5 mg/m ³ TWA (AI)
Sodium nitrate	No data available	No data available	No data available

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles. Face-shield.
Skin Protection Wear suitable protective clothing, Impervious gloves.
Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Granular **Viscosity** Solid
Color Blue **Odor** Odorless

Appearance	Opaque	pH	@ 10% - 14
Specific Gravity	1.18	Evaporation Rate	0
Percent Volatile (Volume)	No information available	VOC Content (%)	1.5
Vapor Pressure	<0.1 mmHg @ 68 °F	Vapor Density	0.6
Solubility	Partly soluble	Boiling Point/Range	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks
Incompatible Products	Strong oxidizing agents, Reducing agents, Contact with metals liberates hydrogen gas.
Hazardous Decomposition Products	Carbon oxides, Sodium oxides, Nitrogen oxides (NOx).
Possibility of Hazardous Reactions	Water reactive, Oxidizing properties.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium hydroxide	no data available	1350 mg/kg (Rabbit)	no data available	no data available	no data available
Petroleum distillates, hydrotreated light	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	5.2 mg/L (Rat) 4 h	no data available	no data available
Aluminum	no data available	no data available	no data available	no data available	no data available
Sodium nitrate	1267 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	CNS, cardiovascular system, respiratory system
Aluminum	no data available	no data available	no data available	no data available	eyes, respiratory system, skin skin, respiratory system
Sodium nitrate	no data available	no data available	no data available	no data available	Blood, CNS, heart, liver, kidneys

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Aluminum	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium nitrate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium hydroxide	no data available	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Petroleum distillates, hydrotreated light	no data available	LC50= 2.2 mg/L Lepomis macrochirus 96 h LC50= 45 mg/L Pimephales promelas 96 h LC50= 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50 = 4720 mg/L 96 h	N/A
Aluminum	no data available	no data available	no data available	no data available	N/A
Sodium nitrate	no data available	LC50 994.4-1107 mg/L Oncorhynchus mykiss 96 h LC50= 2000 mg/L Lepomis macrochirus 96 h	no data available	no data available	-3.8 at 25 °C

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations.
Container Disposal Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Sodium hydroxide, solid, mixture
Hazard Class 8
UN-No UN1823
Packing Group II
Description Sodium hydroxide, solid,mixture,8,UN1823,PG II

TDG

Proper shipping name Sodium hydroxide, solid, mixture
Hazard Class 8
UN-No UN1823
Packing Group II
Description SODIUM HYDROXIDE, SOLID, MIXTURE,8,UN1823,PG II

ICAO

UN-No UN1823
Proper Shipping Name Sodium hydroxide, solid, mixture
Hazard Class 8
Packing Group II
Shipping Description Sodium hydroxide, solid, mixture,8,UN1823,PG II

IATA

UN-No UN1823
Proper Shipping Name Sodium hydroxide, solid, mixture
Hazard Class 8
Packing Group II

ERG Code 8S
Shipping Description UN1823,Sodium hydroxide, solid, mixture,8,PG II

IMDG/IMO

Proper Shipping Name Sodium hydroxide, solid, mixture
Hazard Class 8
UN-No UN1823
Packing Group II
EmS No. F-A, S-B
Shipping Description UN1823, Sodium hydroxide, solid, mixture,8,PG II

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Aluminum	7429-90-5	3-7	1.0 % de minimis concentration (dust or fume only)
Sodium nitrate	7631-99-4	15-40	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	Yes

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	Not applicable	Not applicable
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Aluminum	Not applicable	Not applicable
Sodium nitrate	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material, D2B Toxic materials, B6 Reactive flammable material, C Oxidizing materials.



16. OTHER INFORMATION

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Reason for Revision No information available.

Glossary No information available.

List of References. No information available.

CARROLL COMPANY assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.