Safety Data Sheet: DRAIN BUSTER, MM

Supercedes Date 06/20/2013 **Issuing Date** 05/12/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DRAIN BUSTER, MM
Recommended use Use in drains
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code M066
Chemical nature Alkaline solid mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Light yellow **Physical State** Solid **Odor** Citrus

GHS
Classification

Physical Hazards

Substances/mixtures corrosive to metal	Category 1

Health Hazard

Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure
H290 - May be corrosive to metals

Precautionary Statements
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace
P260 - Do not breathe dust
P271 - Use in a well-ventilated area.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P333 + P313 - If skin irritation or rash occurs, get medical attention
P363 - Wash contaminated clothing before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P406 - Store in a corrosion-resistant container.
P501 - Dispose of contents and container in accordance with applicable regulations.

1 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium hydroxide	1310-73-2	60-100
Sodium bisulfate	7681-38-1	10-30
Monosodium phosphate, anhydrous	7558-80-7	5-10
Sodium chloride	7647-14-5	1-5
Sodium carbonate	497-19-8	1-5
D-Limonene	5989-27-5	0.1-1

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe 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 not breathing, give 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. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable

Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas.

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

HMIS **Health** 3 **Flammability** 1 **Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Cover powder spill with plastic sheet or tarp to minimize spreading.

Methods for Cleaning Up Pick up and arrange disposal without creating dust.

Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe dust.

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined.

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	Ceiling: 2 mg/m^3	TWA: 2 mg/m^3	10 mg/m^3 Ceiling: 2 mg/m^3
Sodium bisulfate	No data available	No data available	No data available
Monosodium phosphate, anhydrous	No data available	5 mg/m^3 PNOR (as solid)	No data available
Sodium chloride	No data available	5 mg/m^3 PNOR (as solid)	No data available
Sodium carbonate	No data available	No data available	No data available

D-Limonene	No data available	No data available	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	**Viscosity**	Powder
Color	Light yellow	**Odor**	Citrus
Odor Threshold	Not applicable	**Appearance**	Opaque
pH	(as 10% solution) 14	**Specific Gravity**	1.2
Evaporation Rate	0 (Butyl acetate=1)	**Percent Volatile (Volume)**	1.6
VOC Content (%)	0.6	**VOC Content (g/L)**	6
Vapor Pressure	0 mmHg @ 70°F	**Vapor Density**	5.6 (Air = 1.0)
Solubility	Soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	No data available	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Hydrogen, by reaction with metals.	**Upper** 75 **Lower** 4	

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to Avoid Protect from moisture, Extremes of temperature and direct sunlight, Avoid dust formation.

Incompatible Products Metals, Strong acids, Aldehydes, Hydrofluoric acid, Strong oxidizing agents, Ketones, Acetone, Halogenated hydrocarbon, Reducing agents.

Hazardous Decomposition Products Sodium oxides, Carbon oxides, Sulfur oxides, Nitrogen oxides (NOx), Ammonia, Aldehydes, Ketones, Hydrogen, by reaction with metals.

Possibility of Hazardous Reactions Potential for exothermic hazard

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

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. May cause allergic skin reaction.

Inhalation Harmful by inhalation. Causes burns.

Ingestion If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs. May cause sensitization by skin contact.

Target Organ Effects Skin, Eyes, Respiratory system, Central nervous system, Heart, Kidney, Immune system.

Aggravated Medical Conditions Skin disorders, Respiratory disorders, Neurological disorders, Kidney disorders, Heart disease.

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
Sodium bisulfate	= 2490 mg/kg (Rat)	no data available	no data available	no data available	no data available
Monosodium phosphate,	= 8290 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	no data available	no data available	no data available

anhydrous					
Sodium chloride	= 3 g/kg (Rat)	no data available	> 42 g/m^3 (Rat) 1 h	no data available	no data available
Sodium carbonate	= 4090 mg/kg (Rat)	no data available	= 2300 mg/m^3 (Rat) 2 h	no data available	no data available
D-Limonene	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	no data available	no data available	no data available

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
Sodium bisulfate	no data available	Skin sensitization	no data available	no data available	Immune system
Monosodium phosphate, anhydrous	no data available	no data available	no data available	no data available	CNS, heart, kidney
Sodium chloride	no data available	no data available	no data available	no data available	kidney
Sodium carbonate	no data available	no data available	no data available	no data available	no data available
D-Limonene	no data available	Skin sensitization, Respiratory sensitization	no data available	no data available	CNS, immune system, lungs, 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
Sodium bisulfate	not applicable	not applicable	not applicable	not applicable	not applicable
Monosodium phosphate, anhydrous	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium chloride	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium carbonate	not applicable	not applicable	not applicable	not applicable	not applicable
D-Limonene	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
Sodium bisulfate	no data available	no data available	no data available	EC50 190 mg/L Daphnia magna 48 h	N/A
Monosodium phosphate, anhydrous	no data available	no data available	no data available	no data available	N/A
Sodium chloride	no data available	LC50 4747 - 7824 mg/L Oncorhynchus mykiss 96 h LC50 5560 - 6080 mg/L Lepomis macrochirus 96 h LC50 6020 - 7070 mg/L Pimephales promelas 96 h LC50 6420 - 6700 mg/L Pimephales promelas 96 h LC50 = 12946 mg/L Lepomis macrochirus 96 h LC50 = 7050 mg/L Pimephales promelas 96 h	no data available	EC50 340.7 - 469.2 mg/L Daphnia magna 48 h EC50 1000 mg/L Daphnia magna 48 h	N/A
Sodium carbonate	EC50 = 242 mg/L Nitzschia 120 h	LC50 310 - 1220 mg/L Pimephales promelas 96 h LC50 = 300 mg/L Lepomis macrochirus 96 h	no data available	EC50 265 mg/L Daphnia magna 48 h	N/A
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A

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

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Sodium hydroxide, solid, mixture
Hazard Class	8
UN-No	UN1823
Packing Group	II
Reportable Quantity (RQ)	Sodium hydroxide, RQ kg= 588.85
Description	UN1823, Sodium hydroxide, solid, mixture, 8, PG II , RQ

TDG

Hazard Class	8
UN-No	UN1823
Packing Group	II

ICAO

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

IATA

UN-No	UN1823
Proper Shipping Name	Sodium hydroxide, solid, mixture
Hazard Class	8
Packing Group	II
ERG Code	8L
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 does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable
Sodium bisulfate	Not applicable	Not applicable
Monosodium phosphate, anhydrous	Not applicable	Not applicable
Sodium chloride	Not applicable	Not applicable
Sodium carbonate	Not applicable	Not applicable
D-Limonene	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By	Sarah Williamson
Supercedes Date	06/20/2013
Issuing Date	05/12/2014
Reason for Revision	No information available.
Glossary	No information available.

List of References. No information available.

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