

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Drain Out Crystal

CAS# Mixture **Product use** Drain opener

Manufacturer Iron Out dba Summit Brands

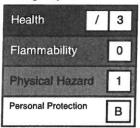
7201 Engle Road

Fort Wayne, IN 46804-5875 US

Phone: 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA			
Severe	4		
Serious	3		
Moderate	2		
Slight	1		
Minimal	0		





2. Hazards Identification

Emergency overview DANGER -- CORROSIVE

Oxidizing material.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes chemical burns. May cause blindness.

Skin Causes chemical burns.

Inhalation Dust may cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Target organs Eyes. Skin. Mucous membranes. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential environmental effects Components of this product have been identified as having potential

environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent		
Sodium hydroxide	1310-73-2	40 - 60		
Sodium nitrate	7631-99-4	20 - 40		
Sodium carbonate	497-19-8	2.5 - 10		
Aluminum	7429-90-5	1 - 2.5		

4. First Aid Measures

First aid procedures

Immediately flush with cool water. Remove contact lenses, if applicable, and continue Eye contact

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Brush away excess of dry material. Immediately flush with cool water for 15 minutes.

Obtain medical attention if irritation persists. Wash contaminated clothing well before

reuse or discard.

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Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce Ingestion

risk of aspiration. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician General advice

Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

Decomposition releases oxygen which may intensify fire.

the chemical

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of sodium. Oxides of

nitrogen. Hydrogen chloride.

Explosion data

impact

Sensitivity to mechanical

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with

water. Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.

Storage

Keep out of reach of children. Store in a closed container away from incompatible

materials. Keep away from heat, open flames or other sources of ignition.

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8.	Exposure	Controls /	Personal	Protection
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Exposure limits	
Ingredient(s)	Exposure Limits
Aluminum	ACGIH-TLV
	TWA: 1 mg/m3
	OSHA-PEL
	TWA: 15 mg/m3
Sodium carbonate	ACGIH-TLV
	Not established
	OSHA-PEL
	Not established
Sodium hydroxide	ACGIH-TLV
	Ceiling: 2 mg/m3
	OSHA-PEL
	TWA: 2 mg/m3
Sodium nitrate	ACGIH-TLV
	TWA: 10 mg/m3
	OSHA-PEL
	Not established

Engineering controls

Personal protective equipment

Eye / face protection

Hand protection

Skin and body protection

Respiratory protection

General hygiene considerations

Use only under good ventilation conditions or with respiratory protection.

Chemical splash goggles.

Rubber gloves. Confirm with a reputable supplier first.

As required by employer code. Rubber apron recommended.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Granular powder with aluminum chips **Appearance** White Color Solid. **Form** Sweet Odor **Odor threshold** Not available Solid **Physical state** Not available pН Not available Freezing point Not available **Boiling point** Not available **Pour point** Not available **Evaporation rate** None Flash point Not available **Auto-ignition temperature** Flammability limits in air, lower, % Not available by volume Not available Flammability limits in air, upper, % by volume Not available Vapor pressure Vapor density Not available Not available Specific gravity Not available Octanol/water coefficient

10. Stability and Reactivity

Reacts with soft metals producing flammable hydrogen gas. Dissolves in water Reactivity

releasing heat.

Possibility of hazardous reactions

Hazardous polymerization does not occur. Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Acids. Reducing agents.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon. Oxides of sodium. Oxides of

nitrogen. Hydrogen chloride.

11. Toxicological Information

Component analysis - LC50				
Ingredient(s)	LC50			
Aluminum	Not available			
Sodium carbonate	400 mg/m3 guinea pig			
Sodium hydroxide	Not available	122		
Sodium nitrate	Not available			
Component analysis - Oral LD50				
Ingredient(s)	LD50	-		
Aluminum	Not available			
Sodium carbonate	4090 mg/kg rat			
Sodium hydroxide	Not available			
Sodium nitrate	1267 mg/kg rat			

Effects of acute exposure

Eve

Causes chemical burns. May cause blindness.

Skin

Causes chemical burns.

Inhalation

Dust may cause respiratory tract irritation or chemical burns.

Ingestion

Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Sensitization

Not classified or listed by IARC, NTP, OSHA and ACGIH. Not classified or listed by IARC, NTP, OSHA and ACGIH.

Chronic effects Carcinogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

ACGIH - Threshold Limit Values - Carcinogens

Aluminum

A4 - Not Classifiable as a Human Carcinogen

Mutagenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Reproductive effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Teratogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

See below **Ecotoxicity**

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Sodium carbonate

497-19-8

120 Hr EC50 Nitzschia: 242 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Sodium carbonate

497-19-8

96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]

Sodium hydroxide

1310-73-2

96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Sodium nitrate

7631-99-4

96 Hr LC50 Lepomis macrochirus: 2000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss:

Ecotoxicity - Water Flea - Acute Toxicity Data

Sodium carbonate

48 Hr EC50 Daphnia magna: 265 mg/L

Persistence / degradability

Not available

994.4-1107 mg/L [static]

Bioaccumulation / accumulation Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient Chemical fate information Not available

Not available Not available

Not available Not available

Not available

13. Disposal Considerations

Disposal instructions

Review federal, state and local government requirements prior to disposal.

Waste from residues / unused

products

Contaminated packaging

Not available

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name

Corrosive solids, oxidizing, n.o.s. (SODIUM

HYDROXIDE, SODIUM NITRATE)

Hazard class

8 (5.1)

UN number

UN3084

Packing group

Additional information:

Special provisions

IB6, IP2, T3, TP33

Packaging exceptions

None

ERG number

140





15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium hydroxide

1310-73-2

1000 Lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Aluminum

7429-90-5

1.0 % de minimis concentration (dust or fume only) U.S. - CWA (Clean Water Act) - Hazardous Substances

Sodium hydroxide

Present

CERCLA (Superfund) reportable quantity

Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

Section 302 extremely

hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Sodium hydroxide

7429-90-5

Present

1310-73-2

Present

Present

Present

U.S. - Louisiana - Reportable Quantity List for Pollutants

Sodium hydroxide

1310-73-2

1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Aluminum Sodium hydroxide Sodium nitrate

7429-90-5 1310-73-2 7631-99-4

Present

U.S. - Minnesota - Hazardous Substance List

Aluminum Sodium hydroxide 7429-90-5 1310-73-2 Present (dust) Present

Aluminum

7429-90-5

U.S. - New Jersey - Right to Know Hazardous Substance List sn 0054

Sodium hydroxide

1310-73-2

sn 1706 U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Sodium hydroxide

1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

1310-73-2

Aluminum Sodium hydroxide 7429-90-5 1310-73-2

Environmental hazard Environmental hazard

Sodium nitrate

7631-99-4

Present

U.S. - Rhode Island - Hazardous Substance List

7429-90-5

Toxic (dust, powder, welding fumes); Flammable (dust, powder, welding fumes)

Sodium hydroxide Sodium nitrate

1310-73-2 7631-99-4

Toxic; Flammable Flammable

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.