

# Safety Data Sheet: E-100

Supersedes Date 11/02/2015

Issuing Date 10/09/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** E-100  
**Recommended use** Sewer and Drain Cleaner  
**Information on Manufacturer**  
CHEMSEARCH DIV. OF NCH CORP.  
BOX 152170  
IRVING, TX 75015

**Product Code** 4416  
**Chemical nature** Mixture  
**Emergency Telephone**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Blue

**Physical state** Solid

**Odor** Odorless

### GHS

#### Classification

##### Physical Hazards

Oxidizing solids

Corrosive to metals

Category 3

Category 1

##### Health Hazard

Acute Oral Toxicity

Acute Dermal Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 4

Category 4

Category 1

Category 1

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H272 - May intensify fire; oxidizer

H314 - Causes severe skin burns and eye damage

H312 - Harmful in contact with skin

H302 - Harmful if swallowed

H290 - May be corrosive to metals

#### Precautionary Statements

P210 - Keep away from heat

P221 - Take any precaution to avoid mixing with combustibles

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe dust

P270 - Do not eat, drink or smoke when using this product

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P332 + P313 - If skin irritation 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.

P390 - Absorb spillage to prevent damage.

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container in accordance with applicable local regulations.

5 % of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	45-70
Sodium nitrate	7631-99-4	15-40
Aluminum	7429-90-5	3-7
Petroleum distillates, hydrotreated light	64742-47-8	1-5
Sodium carbonate	497-19-8	1-5

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin or on clothing. Do not breathe dust.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wipe up with absorbent material (e.g. cloth, fleece). Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	Does not flash	<b>Method</b>	No data available
<b>Flammability Limits in Air %:</b>	Hydrogen, by reaction with metals.	<b>Upper:</b>	75
		<b>Lower:</b>	4
<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Contact with metals liberates flammable hydrogen gas. Water reactive.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1
<b>HMIS -</b>	<b>Health</b> 3	<b>Flammability</b> 0	<b>Other</b> Water Reactive

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Prevent further leakage or spillage if safe to do so.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods for Containment</b>	Cover powder spill with plastic sheet or tarp to minimize spreading.
<b>Methods for Cleaning Up</b>	Pick up and arrange disposal without creating dust.
<b>Neutralizing Agent</b>	Acetic acid, diluted. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Do not get in eyes, on skin or on clothing. Do not breathe dust.			
<b>Storage</b>	Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry, cool and well-ventilated place.			
<b>Storage Temperature</b>	<b>Minimum</b>	36 °F / 2 °C	<b>Maximum</b>	120 °F / 49 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Aluminum	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust TWA:

Petroleum distillates, hydrotreated light	525 mg/m <sup>3</sup> TWA	No data available	5 mg/m <sup>3</sup> No data available
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**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 insufficient ventilation wear suitable respiratory equipment. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid	<b>Viscosity</b>	Granular
<b>Color</b>	Blue	<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Opaque
<b>pH</b>	(10 % solution) 14	<b>Specific Gravity</b>	1.18
<b>Evaporation Rate</b>	0	<b>Percent Volatile (Volume)</b>	3.6
<b>VOC Content (%)</b>	1.3	<b>VOC Content (g/L)</b>	15.5
<b>Vapor Pressure</b>	<0.01 mmHg @ 70°F	<b>Vapor Density</b>	6.6
<b>Solubility</b>	Partly soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	Not applicable	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	Does not flash	<b>Method</b>	No data available
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Hydrogen, by reaction with metals	<b>Upper: 75 Lower: 4</b>	

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition, Protect from moisture.
<b>Incompatible Products</b>	Strong oxidizing agents, Reducing agents, Contact with metals liberates hydrogen gas, Water.
<b>Decomposition Temperature</b>	No data available
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.
<b>Possibility of Hazardous Reactions</b>	Water reactive, Oxidizing properties.

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

**The following values are calculated based on chapter 3.1 of the GHS document**

**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**

Eye contact, Skin contact, Inhalation.

**Primary Routes of Entry**

Skin contact.

**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. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Components of the product create formation of methemoglobin.

**Chronic Toxicity:**

Harmful if inhaled and may cause delayed lung injury.

**Target Organ Effects:**

Respiratory system, Skin, Eyes.

**Aggravated Medical Conditions**

Respiratory disorders, Skin disorders.

Component Information

**Acute Toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	No data available	= 1350 mg/kg ( Rabbit )	No data available	No data available	No data available

Sodium nitrate 7631-99-4	= 1267 mg/kg ( Rat )	no data available	No data available	No data available	No data available
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	no data available	No data available	No data available
Sodium carbonate 497-19-8	= 4090 mg/kg ( Rat )	no data available	= 2300 mg/m <sup>3</sup> ( Rat ) 2 h	No data available	No data available

**Chronic Toxicity**

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system
Aluminum 7429-90-5	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA	Other
Sodium nitrate 7631-99-4	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**12. ECOLOGICAL INFORMATION**

Product Information No information available.

## Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Sodium nitrate	No information available.	LC50 = 2000 mg/L Lepomis macrochirus 96 h LC50 994.4 - 1107 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	-3.8
Petroleum distillates, hydrotreated light	No information available.	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Sodium carbonate	No information available.	LC50 = 300 mg/L Lepomis macrochirus 96 h LC50 310 - 1220 mg/L Pimephales promelas 96 h	No information available	265: 48 h Daphnia magna mg/L EC50	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. Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT**

<b>Proper Shipping Name</b>	SODIUM HYDROXIDE, SOLID, MIXTURE
<b>Hazard Class</b>	8
<b>UN-No</b>	UN1823
<b>Packing Group</b>	II
<b>Description</b>	UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, P.G. II

**TDG**

<b>Proper shipping name</b>	SODIUM HYDROXIDE, SOLID, MIXTURE
<b>Hazard Class</b>	8
<b>UN-No</b>	UN1823
<b>Packing Group</b>	II
<b>Description</b>	UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, P.G. 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, P.G. II

**IATA**

UN-No UN1823  
 Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE  
 Hazard Class 8  
 Packing Group II  
 Shipping Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, P.G. II

**IMDG/IMO**

UN proper shipping name SODIUM HYDROXIDE, SOLID, MIXTURE  
 Hazard Class 8  
 UN Number UN1823  
 Packing Group II  
 Description UN1823, SODIUM HYDROXIDE, SOLID, MIXTURE, 8, P.G. II

<b>15. REGULATORY INFORMATION</b>
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**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 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values
Sodium nitrate	7631-99-4	15-40	1.0
Aluminum	7429-90-5	3-7	1.0

**SARA 311/312 Hazardous Categorization**

See Section 2

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

<b>16. OTHER INFORMATION</b>
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Prepared By Samantha Purvis

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Reason for Revision No information available.

Glossary No information available.

List of References. No information available.

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