



# **SAFETY DATA SHEET**

CHM00818 CHM00837 CHM00838

Issue Date 12-Mar-2018 Revision Date 12-Mar-2018 Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Drain Solve Liquid Drain Opener

Other means of identification

**Product Code** 4165-01, 4165-08, 4165-24

Synonyms None

Details of the supplier of the safety data sheet

Company Name Nu-Calgon

2611 Schuetz Road St. Louis, MO 63043 (800) 554-5499

http://www.nucalgon.com/

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Category 5
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

# Label elements

### **Emergency Overview**

# **Danger**

# **Hazard statements**

May be harmful in contact with skin Causes severe skin burns and eye damage



Appearance Clear Physical state Liquid Odor Odorless

# **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific Treatment (See Section 4 on the SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Drink plenty of water

Immediately call a POISON CENTER or doctor/physician

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations

#### Hazards not otherwise classified (HNOC)

#### Other Information

• Harmful to aquatic life with long lasting effects

· Harmful to aquatic life

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Hydroxide	1310-73-2	15-40	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

**General advice** Immediate medical attention is required.

**Skin Contact** Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. For severe burns, immediate medical attention is

required.

**Eye contact** Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes.

**Inhalation** Remove to fresh air. Call a physician or poison control center immediately. If not breathing,

give artificial respiration. If breathing is difficult, give oxygen.

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison

control center immediately.

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**Self-protection of the first aider**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

symptomatically.

# 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

# **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 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.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions** Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other

surface water bodies. Should not be released into the environment. Dispose of according to

all local city, state and federal rules and regulations.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take

up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

**Advice on safe handling**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

**Incompatible materials** Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids.

Aluminum.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Showers, Eyewash stations & Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or

clothing. Avoid breathing (dust, vapor, mist, gas). Use personal protective equipment as required. Take off all contaminated clothing and wash it before reuse. Wash face, hands

and any exposed skin thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical stateLiquidAppearanceClearColorColorlessOdorOdorless

Odor threshold No Information available

Property Values Remarks • Method

 pH
 13.5 +

 Specific Gravity
 1.35

**Viscosity** < 25 cP @ 25°C

Melting point/freezing point No Information available

Flash point None

Boiling point / boiling range Est 290 ° F

Evaporation rate No Information available Flammability (solid, gas) No data available

Flammability Limits in Air

Upper flammability limit:No Information availableLower flammability limit:No Information availableVapor pressureNo Information availableVapor densityNo Information available

Water solubility Complete

Partition coefficient
Autoignition temperature
Decomposition temperature
No Information available
No Information available

#### Other Information

Density Lbs/Gal 11.25 VOC Content (%) 0%

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information**The primary effects and toxicity of this material are due to it corrosive nature.

**Inhalation** Avoid breathing vapors or mists. Breathing of vapor can cause respiratory irritation and

inflammation. Breathing of mist or liquid can cause burns to the respiratory tract.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness. Avoid contact

with eyes. Corrosive. Causes severe eye damage.

**Skin Contact** Avoid contact with skin. Corrosive. Contact with skin may cause severe irritation and burns.

**Ingestion** Do not taste or swallow. Ingestion causes acute irritation and burns to the mucous

membranes of the mouth, trachea, esophagus and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide	=	= 1350 mg/kg (Rabbit)	-
1310-73-2			

### Information on toxicological effects

Symptoms No Information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to

eyes.

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Sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No Information available.
No Information available.
No Information available.
No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects. EYES, Respiratory system, Skin.

**Target organ effects Aspiration hazard**EYES, Respiratory system No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (dermal)** 3,857.00

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	

#### Persistence and degradability

No Information available.

### **Bioaccumulation**

No Information available.

Other adverse effects No Information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide	Toxic
1310-73-2	Corrosive

# 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT Regulated UN/ID No. UN3266

**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.

Hazard Class 8
Packing Group ||

Special Provisions B2, IB2, N34, T7, TP2

Description UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, II

Emergency Response Guide 1

Number

**TDG** 

UN/ID No. UN3268

**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.

Hazard Class 8
Packing Group | |

Description UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, II

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **US 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 Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

# **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	Х

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide	1000 lb	=	RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product has been evaluated and does not require warning labeling under California Proposition 65.

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide	X	X	X

1310-73-2		

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

# **16. OTHER INFORMATION**

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties -

Health hazards 3 Flammability 0 Physical hazards 0 Personal protection D

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**Revision Note** 

No Information available

#### Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**