

**Section 1 : Product & Company Information**

Product Name	: Drain Opener -LYE
Other means of identification	: not applicable
Recommended use	: Drain Opener
Restriction on use	: Reserved for industrial and personal purpose
Product dilution information	: Product is sold ready to use
Company	: <b>Al Nazafat Inter care Solutions (HSSE Partners)</b> Suite No. 615, Ceasers Tower, Shahra-eFaisal, Karachi.
Emergency Telephone Nos.	: 02132803217-03333397452
Issuing date	: July 4, 2020

**Section 2 : Hazards Identification**

Flammable Liquids	: 0
Eye Irritation	: 2

Hazards pictogram



Signal Word	: Danger
Hazard Statements	: Causes severe skin burns and eye damage
Precautionary Statements	: <b>Prevention:</b>

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Keep container tightly closed

**Response:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 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/doctor. Wash contaminated clothing before reuse.

Maintain eye wash and quick drench facilities in work area.  
use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

Store locked up

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

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

Other hazards : call poison centre or doctor if swallowed rinse mouth do not induce vomiting

Other hazards : Wear Protective gloves, clothing face protection and eye protection

**Section 3 : Composition / Information on Ingredients**

Pure substance / Mixture	: Mixture Sodium hydroxide CAS No. 1310-73-2 Concentration 30% - 60% Potassium hydroxide CAS No. 1310-58-3 Concentration 1% - 5%
Chemical Name	: hydroxide CAS No. 1310-58-3 Concentration 1% - 5%

**Section 4 : First Aid Measures**

in case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
in case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately
if swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately

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## SAFETY DATA SHEET

if Inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection for first -aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to Physician	: Treat Symptomatically (refer toxicological information (Section 11))

<b>Section 5</b>	<b>Fire fighting Measures</b>
Suitable extinguishing media	: Use existing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing	: High volume water jet
Specific hazard during fire fightings	: Carbon oxides & Carbon Mono oxides
Hazards combustion products	: No specific fire or explosive hazards Use water spray to cool unopened container. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and / or explosion do not breathe fume.
Specific extinguishing methods	

<b>Section 6</b>	<b>Accidental Release Measure</b>
Personal precautions, protective equipment and emergency procedure	: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environment precaution	: Do not allow with soil, surface or ground water Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway
Method and materials for containment and cleaning up	

<b>Section 7</b>	<b>Handling and Storage</b>
Advice on safe handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Condition for Storage	: Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	: 10 °C to 45 °C
Incompatible Products	: do not use with other toilet bowl cleaners, rust removers acids or caustic material, or products containing ammonia

<b>Section 8</b>	<b>Exposure Controls / Personal Protection</b>
<b>Ingredients with workplace control parameters</b>	
Ingredients	: Sodium Hydroxide 1310-7-2 & Potassium Hydroxide 1310-58-3
Form of Exposure	: NIOSH IDLH immediately dangerous to life and health
Permissible Concentration	: Ceiling 2 mg/m <sup>3</sup>
Engineering measures	: Showers, Eyewash stations Good General ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal Protective Equipment	: Required
Eye Protection	: Safety eye wear complying with approved standards in case of exposure with liquid splashes mists gases or dust.
Hand Protection	: Chemical resistant gloves is necessary
Skin Protection	: PPE for body
Respiratory Protection	: Respirators must be used Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Hygiene measures	

<b>Section 9</b>	<b>Physical &amp; Chemical Properties</b>
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Appearance	Liquid
Colour	Colour less
Odor	non
pH	13-14
Melting point/ frezing point	no data available
Odor Threshold	no data available
Melting point/ frezing point	no data available
Initial boiling point & boiling range	no data available
Evaporation rate	no data available
Flammability (solid gas)	no data available
Upper explosion limit	no data available
Lower explosion limit	no data available
Vapor pressure	no data available
Water Solubility	no data available
Solubility in other solvents	no data available
Partition coefficient : n-octanol / water	no data available
Autoignition tempreture	no data available
Thermal decomposition	no data available
Viscosity Kinematic	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Molecular weight	no data available
VOC	no data available

**Section 10 Stability and Reactivity**

Chemical Stability	Stable under normal condition
Possibility of hazardous reaction	Reacts with other household chemicals such as other toilet bowl cleaners, rust removers acids or products containing ammoni and caustics to produce hazardous irritation and gases, such as chlorine and other chlorinated compounds
Condition to avoid	Heat, flames and sparks
Incompatible material	other toilet bowl cleaners, rust removers acids or products containing ammoni and caustics. Acids, Metals, Organic materials , bases.
Hazardous decomposition products	shall not be used with Acids or mixed with other substance

**Section 11 Toxicology information**

Information on likely routes of exposure	Inhalation, Eye contact, skin contact and exposure to vapors may irritate respiratory tract and cause coughing, high concentration of inhalation may cause pulmonary edema.
<b>Potential Health effects</b>	
Eyes	Cause serious eye damage and is Corrosive
Skin Protection	Cause serious skin damage and prolong exposure can cause burns
Ingestion	Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting and diarrhea
Inhalation	inhalation may cause pulmonary edema.
Chronic Exposure	May cause redness and tearing of the eyes. May cause burns to eyes. May cause redness or burns to skin.
STOT- Single exposure	No information available
<b>Ingredients</b>	
Acute dermal toxicity	Sodium Hyroxide 1310-7-2 & Potassium Hydroxide 1310-58-3
Acute inhalation toxicity	May cause pulmonary edema and burning of respiratory tract

**Section 12 Ecological Information**

<b>Ecotoxicity</b>	
Environmental Effects	Harmful to aquatic life
<b>Product</b>	

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Toxicity to fish no data available  
 Toxicity to daphnia and other aquatic invertebrates no data available  
 Toxicity to algae no data available

**Ingredients**

Toxicity to fish Sodium Hypochlorite and Sodium Hydroxide are very toxic to aqua life with long lasting effects

**Persistence and degradability** no data available

**Bioaccumulative potential** no data available

**Mobility in soil** no data available

**Other adverse effects** no data available

**Section 13 Disposal Consideration**

The product should not be allowed to enter drains, water courses or the soil.  
**Disposal Methods** Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of waste in an approved waste disposal facility  
**Disposal Considerations** Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

**RCRA- Resource**

Conservation and Recovery  
 Authorizatio ACT Haatdous waste D001 (ignitable)

**Section 14 Transport Information**

**Marks & labels** Contains Sodium Hypochlorite and Sodium Hydroxide  
**Class** 8  
**Packing** II  
**General** CORROSIVE LIQUID

**Section 15 Regulatory Information**

**Hazards** Extremely Hazardous Substances Reportable Quantity  
**Governance** No chemical safety assessment has been made as this product is a mixture

**Section 16 Other Information**

The information provided in this Material 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.

**Health** 3  
**Flammability** 0  
**Physical Hazard** 0