



Issue Date 18-Apr-2014

Revision Date 01-JAN-2016

Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product Name	ZIP			
Other means of identification				
Product Code	2679			
UN/ID No.	1824			
Synonyms	None			
Recommended use of the chemical Recommended Use Uses advised against	<u>and restrictions on use</u> Emulsifying Engine Degreaser. No information available			
Details of the supplier of the safety data sheet				
Manufacturer Address				
Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354				
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## Emergency telephone number

Company Phone Number	1-404-761-0657
24 Hour Emergency Phone Number	800-424-9300
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)

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

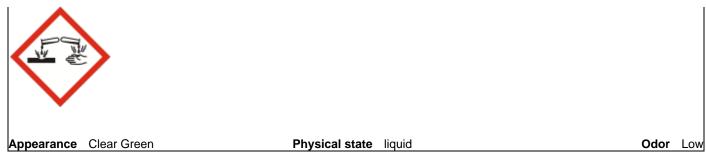
### Label elements

**Emergency Overview** 

# Danger

Hazard statements

Causes severe skin burns and eye damage



## **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 and eye protection.

## Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label) 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

## **Precautionary Statements - Storage**

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

% 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	<8	*

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

## 4. FIRST AID MEASURES

#### First aid measures

General advice	Severe irritant to eyes. Irritation and/or difficulty in breathing if inhaled. Gastric pain and vomiting if ingested.
Eye contact	For eye contact, immediately flush with clear running water for 15 minutes. Get medical attention.
Skin Contact	Rinse with clear water.

Inhalation	Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get medical attention. If breathing does not return to normal, seek medical attention.			
Ingestion	Immediately drink large quantities of water. Get medical attention.			
Most important symptoms and effe	ects, both acute and delayed			
Symptoms	No information available.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symptomatically.			
5. FIRE-FIGHTING MEASURES				
<u>Suitable extinguishing media</u> Dry chemical. Carbon dioxide (CO2). Alcohol Foam.				
Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.				
Specific hazards arising from the chemical No information available.				

## 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	Ensure adequate ventilation, especially in confined areas.			
Environmental precautions				
Environmental precautions	See Section 12 for additional ecological information.			
Methods and material for containment and cleaning up				
Methods for containment	Keep container closed when not in use. Keep out of reach of children. Do not freeze. Follow label instructions.			
Methods for cleaning up	PH adjust and dispose in accordance with federal and state regulations.			
7. HANDLING AND STORAGE				
Precautions for safe handling				
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Do not freeze. Keep container tightly closed in a dry and well-ventilated place. Follow label			

instructions. Keep out of reach of children.

Incompatible materials

Strong acids. OXIDIZERS.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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>

Appropriate engineering controls

## **Engineering Controls**

Showers Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/face protection	No special technical protective measures are necessary.
Skin and body protection	No special technical protective measures are necessary.
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 Considerations	Wash contaminated clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Appearance Color	liquid Clear Liquid Green	Odor Odor threshold	Low No information available
Property pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	Values12.5 - 13No information available100 >212°FNo information available<1No information availableNo information availableNo information availableNo information availableNo information availableNo information availableNo information available<11.01completely solubleNo information availableNo information available	<u>Remarks • Method</u>	

## **Oxidizing properties**

### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density No information available No information available No information available 8.73 No information available

No information available

# **10. STABILITY AND REACTIVITY**

## Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

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

None under normal processing.

#### Hazardous polymerization Hazardous polymerization does not occur.

## Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Strong acids. OXIDIZERS.

#### Hazardous Decomposition Products

Phosphorous Oxidizers. Carbon dioxide (CO2). Carbon monoxide.

## **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

No data available
Irritation and difficulty in breathing.
Severely irritating to eyes.
No data available.
Gastric pain and vomiting.

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

Sensitization	No information available	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	

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### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

11% 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.

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

# **14. TRANSPORT INFORMATION**

	Regulated
UN/ID No.	1824
Proper Shipping Name	Sodium Hydroxide Solution
Hazard Class	8
Packing Group	II
EXEMPT FOR QUART SIZE OR LESS (ORM-D)	8

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

## 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

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

## CWA (Clean Water Act)

This product does not contain any substances regulated as 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

## <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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 does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania

Sodium Hydroxide X X X X 1310-73-2	х
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# U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION						
<u>NFPA</u>	Health hazards	0	Flammability	0	Instability 0	Physical and Chemical
<u>HMIS</u>	Health hazards	2	Flammability	0	Physical hazards 0	Properties - Personal protection X
Prepared By Issue Date Revision Date	Moira Blackflower 18-Apr-2014 01-JAN-2016					
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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