

# Safety Data Sheet

OSHA format Revision Number 0

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

Product identifier	
Product name	Sodium Hydroxide Reagent with Metal Inhibitor
Other means of identification	
Product Code(s)	4259
UN-No	1824
Recommended use of the chemica	l and restrictions on use
Recommended Use	Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory
	reagent.
Details of the supplier of the safety	data sheet
	Manufacturer Address
	LaMotte Company, Inc.
	802 Washington Avenue
	P.O. Box 329
	Chestertown, MD 21620 USA
	T 410-778-3100
	F 410-778-9748
Emergency telephone numbers	
(CHEM-TEL):USA, Canada, Puerto F	tico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

# 2. HAZARDS IDENTIFICATION

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

# EMERGENCY OVERVIEW

DANGER		
<b>Hazard statements</b> Causes severe skin burns and eye damage.		
E B		
Appearance Clear, colorless	Physical state liquid	Odor Odorless

#### **Precautionary Statements - Prevention**

Do not taste or swallow. 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. Keep out of the reach of children.

**Response:** Immediately call a poison center or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Storage:

Store locked up. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS\*

Chemical name	CAS #	Weight-%
Non-hazardous ingredients	N/A	balance
Sodium hydroxide	1310-73-2	5.4
Triethanolamine	102-71-6	5.6

# 4. FIRST AID MEASURES

### First Aid Measures

General advice	Do not get in eyes, on skin, or on clothing.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Call a physician immediately.

Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.
Ingestion	Do NOT induce vomiting. Call a physician immediately. Drink plenty of water. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protection recommended in Section 8.

# **5. FIREFIGHTING MEASURES**

#### Suitable extinguishing media

Dry chemical or CO<sub>2</sub>. DO NOT USE WATER.

# Specific hazards arising from the chemical

React vigorously with water.

#### Hazardous combustion products

Contact with metals may evolve flammable hydrogen gas.

#### 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. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists.	
Environmental precautions	See Section 12 for additional Ecological Information. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.	
Methods and material for containment and cleaning up		
Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).	
Methods for cleaning up	After cleaning, flush away traces with water.	
7. HANDLING AND STORAGE		

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or swallow. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from incompatible materials such as cyanides or sulfides. Store away from strong bases or metals. Do not store near combustible materials. Keep out of the reach of children.
Incompatible Products	Water. Strong bases. Metals. Combustible materials. Cyanides. Sulfides. Formaldehyde.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Non-hazardous ingredients N/A	*-	*_	Not Established
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	*_	Not Established
Appropriate engineering controls	<u>i</u>		
Engineering Measures	Ensure adequate ventilation	, especially in confined areas.	
Individual protection measures, s	such as personal protective eq	juipment	
Eye/Face Protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Face protection shield. Ensure that eyewash stations and safety showers are close to the workstation location.		
Skin and body protection	Gloves & Lab Coat. Impervious clothing. Protective gloves. Nitrile rubber.		
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance	liquid Clear, colorless	Odor	Odorless
Property	<u>Values</u>	Remarks • Method	
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 Oxidizing properties	13-14 No information available No information available Not Applicable No information available No information available No information available >1 No information available Soluble in water No information available No information available	<17 mmHg @ 20°C (air=1)	
Softening point	No information available		

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

# **10. STABILITY AND REACTIVITY**

Stability Hazardous Reactions	Stable under recommended storage conditions. Reacts violently with water. Contact with metals may evolve flammable hydrogen gas.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Excessive heat. Moisture. Incompatible Products.
Incompatible materials	Water. Strong bases. Metals. Combustible materials. Cyanides. Sulfides. Formaldehyde.
Hazardous decomposition products Hydrogen gas. Sulfur oxides (SOx).	

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Component identification**

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Non-hazardous ingredients	Not Established	Not Established	Not Established
N/A			
Sodium hydroxide	Not Established	= 1350 mg/kg (Rabbit)	Not Established
1310-73-2			
Triethanolamine	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat)> 20 mL/kg (	Not Established
102-71-6		Rabbit )	

#### Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established	Not Established
Sodium hydroxide 1310-73-2	Not Established	Not Established	Not Established	Not Established
Triethanolamine 102-71-6	Not Established	Group 3	Not Established	Not Established

 ACGIH (American Conference of Governmental Industrial Hygienists)

 A2 - Suspected Human Carcinogen

 A3 - Animal Carcinogen

 IARC (International Agency for Research on Cancer)

 Group 1 - Carcinogenic to Humans

 NTP (National Toxicology Program)

 Known - Known Carcinogen

 OSHA (Occupational Safety and Health Administration of the US Department of Labor)

 X - Present

 Chronic toxicity

 Chronic exposure to corrosive mists or vapors may cause erosion of the teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

 Numerical measures of toxicity \_- Product Information

ATEmix (oral)	74,821.00 mg/kg
ATEmix (dermal)	23,194.00 mg/kg

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

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

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Non-hazardous ingredients	Not Established	Not Established	Not Established
N/A			

Sodium hydroxide	Not Established	45.4: 96 h Oncorhynchus mykiss	Not Established
1310-73-2		mg/L LC50 static	
Triethanolamine	169: 96 h Desmodesmus	10600 - 13000: 96 h Pimephales	1386: 24 h Daphnia magna mg/L
102-71-6	subspicatus mg/L EC50 216: 72 h	promelas mg/L LC50 flow-through	EC50
	Desmodesmus subspicatus mg/L	450 - 1000: 96 h Lepomis	
	EC50	macrochirus mg/L LC50 static	
		1000: 96 h Pimephales promelas	
		mg/L LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

When released into the soil, this material may leach into ground water. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet or dry deposition.

Chemical name	Log Pow
Non-hazardous ingredients N/A	Not Established
Sodium hydroxide 1310-73-2	Not Established
Triethanolamine 102-71-6	-2.53

# 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of waste product or used containers according to local regulations. Should not be released into the environment.

**Contaminated packaging** 

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Non-hazardous ingredients	Not Established	-	Not Established	Not Established
N/A				
Sodium hydroxide	Not Established	-	Not Established	Not Established
1310-73-2				
Triethanolamine	Not Established	-	Not Established	Not Established
102-71-6				

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established	Not Established
Sodium hydroxide 1310-73-2	Not Established	Not Established	Not Established	Not Established
Triethanolamine 102-71-6	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Non-hazardous ingredients	*-
N/A	
Sodium hydroxide	Toxic
1310-73-2	Corrosive
Triethanolamine	*_
102-71-6	

# **14. TRANSPORT INFORMATION**

DOT

Proper shipping name UN-No SODIUM HYDROXIDE SOLUTION 1824

Hazard Class Packing group Reportable Quantity (RQ)	8 II 1000
<u>TDG</u>	Not regulated
MEX	Not regulated
ICAO	Not regulated
<u>IATA</u> UN-No Proper shipping name Hazard Class Packing group	1824 SODIUM HYDROXIDE SOLUTION 8 II
IMDG/IMO UN-No Proper shipping name Hazard Class Packing group	1824 SODIUM HYDROXIDE SOLUTION 8 II
<u>RID</u> UN-No Proper shipping name Hazard Class Packing group	1824 SODIUM HYDROXIDE SOLUTION 8 II
<u>ADR</u> UN-No Proper shipping name Hazard Class Packing group	1824 SODIUM HYDROXIDE SOLUTION 8 II
ADN	Not regulated

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

#### 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

Chemical name	SARA 313 - Threshold Values %
Non-hazardous ingredients	Not Established
N/A	
Sodium hydroxide	Not Established
1310-73-2	
Triethanolamine	Not Established
102-71-6	
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	Yes

<u>CWA (Clean Water Act)</u> 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
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established	Not Established
Sodium hydroxide 1310-73-2	1000 lb	Not Established	Not Established	Х
Triethanolamine 102-71-6	Not Established	Not Established	Not Established	Not Established

# 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	RQ
Non-hazardous ingredients N/A	*_	Not Established	-
Sodium hydroxide 1310-73-2	1000 lb	Not Established	RQ 1000 lb final RQ RQ 454 kg final RQ
Triethanolamine 102-71-6	*_	Not Established	-

# **US State Regulations**

This product does not contain any Proposition 65 chemicals.

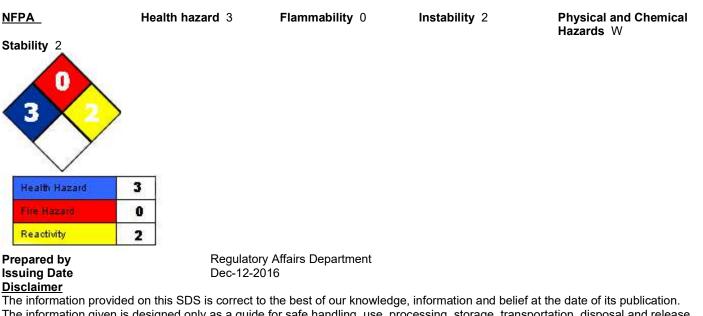
Chemical name	California Proposition 65	
Non-hazardous ingredients N/A	Not Established	
Sodium hydroxide 1310-73-2	Not Established	
Triethanolamine 102-71-6	Not Established	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established
Sodium hydroxide 1310-73-2	Х	X	Х
Triethanolamine 102-71-6	Х	X	Х

# CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated	
	Substances	
Sodium hydroxide	Banned, 16 CFR 1500.17	
1310-73-2	Add POISON to label, 16 CFR 1500.129	
16. OTHER INFORMATION		



The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

#### End of Safety Data Sheet