

SAFETY DATA SHEET

Issue Date 19-Nov-2019

Revision Date 19-Nov-2019 Version 2.2

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

Product identifier	
Product Name	Alkali Solution for Calcium and Magnesium Test
Safety data sheet number	M00284
Other means of identification	<u>1</u>
Product Code(s)	2241732
UN/ID no	UN1824

Manufacturer Address Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency Telephone +1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements



Signal word - Danger

Hazard statements

H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage

Precautionary statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 POISON CENTER or doctor
- P363 Wash contaminated clothing before reuse
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P234 Keep only in original packaging
- P390 Absorb spillage to prevent material damage

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

<u>Mixture</u>

Chemical name	Formula	CAS No.	EC No.	Percent Range
Sodium hydroxide	NaOH	1310-73-2	215-185-5	20 - 30%
Triethanolamine	C6H15NO3	102-71-6	203-049-8	10 - 20%

4. FIRST AID MEASURES

Description of necessary first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
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. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.
For emergency responders Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Most important symptoms/effects, Symptoms	acute and delayed Burning sensation.
Indication of immediate medical att Note to physicians	ention and special treatment needed, if necessary 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

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chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	No information available		
Specific hazards arising from the c Specific hazards arising from the chemical	hemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.		
Flammable properties During a fire, this product decompose	s to form toxic gases.		
Explosive properties Not classified according to GHS criter	ia.		
Hazardous combustion products	Carbon monoxide, Carbon dioxide. Nitrogen oxides.		
Specific/special fire-fighting measu Specific/special fire-fighting measures	Ires No information available.		
Special protective equipment and p Special protective equipment for fire-fighters	precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
	6. ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective en Personal precautions	quipment and emergency procedures Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.		
For emergency responders	Use personal protective equipment as required.		
Environmental precautions Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.		
Methods and material for containm Methods for containment	<u>ent and cleaning up</u> Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

7. HANDLING AND STORAGE

Preventive measures for safe handl Advice on safe handling	ing Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
Precautions for safe handling General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.
Conditions for safe storage, includi	ng any incompatibilities_
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.
Incompatible materials	Oxidizing agent. Acids. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	OSHA P	OSHA PEL		ACGIH TLV		NIOSH	
Sodium hydroxide	TWA: 2 m	TWA: 2 mg/m ³		Ceiling: 2 mg/m ³		IDLH: 10 mg/m ³	
(20 - 30%)	(vacated) Ceiling	(vacated) Ceiling: 2 mg/m ³				Ceiling: 2 mg/m ³	
CAS#: 1310-73-2		, , , , ,					
Triethanolamine	NDF		TWA: 5 mg/m ³			NDF	
(10 - 20%)			5				
CAS#: 102-71-6							
Chemical name	India	Rus	ia Israel			South Africa	
Sodium hydroxide	Ceiling: 2 mg/m ³	NE)F	Ceiling: 2 mg/r	n ³	NDF	
(20 - 30%)							
CAS#: 1310-73-2							
Triethanolamine	NDF	NE)F	TWA: 5 mg/m	3	NDF	
(10 - 20%)				C C			
CAS#: 102-71-6							

Legend

See section 16 for terms and abbreviations

<u>Appropriate engineering controls</u> Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures su	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are
Respiratory protection	exceeded or irritation is experienced, ventilation and evacuation may be required.
	exceeded of initiation is experienced, ventilation and evacuation may be required.
Hand protection	Wear suitable gloves. Impervious gloves.
Hand protection	wear suitable gloves. Impervious gloves.
Eye/face protection	Face protection shield.
Lyenace protection	r dee protection shield.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Skill and body protection	wear suitable protective clothing. Long sieeved clothing. Chemical resistant apron.

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General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.					
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.					
Thermal hazards	None under normal processing.					
9	9. PHYSICAL AND CHEMICAL PROPERTIES					

Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Ammonia	Liquid	-	Color Odor threshold	Colorless to light yellow No data available
Property_			Values		Remarks • Method
Molecular weight			No data available		
рН			13		
Melting point/free	ezing point		~ -31 °C / -24	↓ °F	
Boiling point / bo	iling range		97 °C / 207 °l	F	
Evaporation rate			0.36 (water = 1)		
Vapor pressure			19.802 mm Hg /	2.64 kPa at 2	5 °C / 77 °F
Vapor density (ai	r = 1)		0.76 (Air = 1)		
Specific gravity (water = 1 / air = 1)		1.258		
Partition Coefficie	ent (n-octanol/wate	er)	Not applicable		
Soil Organic Carl Coefficient	oon-Water Partition		Not applicable		
Autoignition tem	perature		No data available		
Decomposition te	emperature		No data available		
Dynamic viscosit	у		No data available		
Kinematic viscos	ity		No data available		
Solubility(ies)					

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Solubility in other solvents

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Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

Other Information

Metal Corrosivity

Classified as corrosive to metal according to GHS criteria Steel Corrosion Rate Aluminum Corrosion Rate

3.05 mm/yr / 0.12 in/yr 10160 mm/yr / 400 in/yr

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)	
Sodium hydroxide	1310-73-2	No data available	-	
Triethanolamine	102-71-6	No data available	Х	

Explosive properties

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	No data available
Flammability Limit in Air Upper flammability limit Lower flammability limit	No data available No data available
Oxidizing properties	No data available.
Bulk density	No data available

10. STABILITY AND REACTIVITY

Reactivity Not applicable.

Chemical stability Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None Sensitivity to static discharge None.

Possibility of Hazardous Reactions Possibility of hazardous reactions None under normal processing.

<u>Hazardous polymerization</u> None under normal processing.

Conditions to avoid

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Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials_ Incompatible materials	Oxidizing agent. Acids. Bases.
Hazardous Decomposition Product Thermal decomposition can lead to re	<u>s</u> lease of irritating and toxic gases and vapors.
	11. TOXICOLOGICAL INFORMATION
Information on Likely Routes of Ex	posure
Product Information	
Inhalation	Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Corrosive. Causes severe burns. Avoid contact with skin and clothing.
Ingestion	Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.
Acute toxicity	

Based on available data, the classification criteria are not met

Product Acute Toxicity Data

No data available.

Ingredient Acute Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	LD₅₀ Rat	4190 mg/kg	None reported	None reported	LOLI

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Triethanolamine	LD50	> 20000	14 days	None reported	ECHA (The European
(10 - 20%)	Rabbit	mg/kg			Chemicals Agency)
CAS#: 102-71-6					LOLI

Unknown Acute Toxicity

0.01% of the mixture consists of ingredient(s) of unknown toxicity.

0.01 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

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0.01 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 0.01% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) 0.01% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0.01% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Acute Toxicity Estimations (ATE)

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

LD50/Oral	13,995.00 mg/kg
LD50/Dermal	No information available
Dust/Mist	No information available
Vapor	No information available
Gas	No information available

Skin corrosion/irritation

Causes severe burns.

Product Skin Corrosion/Irritation Data

No data available.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium hydroxide (20 - 30%) CAS#: 1310-73-2	Patch test	Human	20 mg	24 hours	Corrosive to skin	RTECS (Registry of Toxic Effects of Chemical Substances)
Triethanolamine (10 - 20%) CAS#: 102-71-6	Standard Draize Test	Human	15 mg	72 hours	Skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium hydroxide (20 - 30%) CAS#: 1310-73-2	Standard Draize Test	Rabbit	0.05 mg	24 hours	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)
Triethanolamine (10 - 20%) CAS#: 102-71-6	Standard Draize Test	Rabbit	20 mg	None reported	Eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Product Sensitization Data

No data available.

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Ingredient Sensitization Data

No data available.

Chemical name	Test method	Species	Results	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	OECD Test No. 406: Skin Sensitization	Guinea pig	Not confirmed to be a skin sensitizer	ECHA (The European Chemicals Agency)

STOT - single exposure

Based on available data, the classification criteria are not met.

Product Specific Target Organ Toxicity Single Exposure Data No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data No data available.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product Specific Target Organ Toxicity Repeat Dose Data No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	Rat NOAEL	1000 mg/kg	91 days	Weight gain	ECHA (The European Chemicals Agency)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	NOAEL Rat	125 mg/kg	90 days	Weight gain	ECHA (The European Chemicals Agency)

Carcinogenicity

Based on available data, the classification criteria are not met.

Product Carcinogenicity Data

No data available.

Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sodium hydroxide	1310-73-2	-	-	-	-
Triethanolamine	102-71-6	-	Group 3	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hyg	ienists) Does not apply				
IARC (International Agency for Research on Cancer)	Group 3 - Not classi	fiable as a human			
	carcinogen				
NTP (National Toxicology Program)	Does not apply	Does not apply			
OSHA (Occupational Safety and Health Administration of the Labor)	JS Department of Does not apply				
Chemical name Endpoint Reported Exposure	Toxicological effects Key literatur	e references and			

	type	dose	time		sources for data
Triethanolamine	Rat	250 mg/kg	2 years	Gain in kidney weight	ECHA (The European
(CAS #: 102-71-6)					Chemicals Agency)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product Germ Cell Mutagenicity invitro Data

No data available.

Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	Cytogenetic analysis	Human lymphocyte	0.1 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Germ Cell Mutagenicity invivo Data

No data available.

Ingredient Germ Cell Mutagenicity invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product Reproductive Toxicity Data

No data available.

Ingredient Reproductive Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Triethanolamine (10 - 20%) CAS#: 102-71-6	Mouse LD⊾	16000 mg/kg	64 weeks	None reported	No information available

Aspiration hazard

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown aquatic toxicity

0.01% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Product Ecological Data

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity

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No data available.

Ingredient Ecological Data

Aquatic Acute Toxicity

Test data reported below.

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium hydroxide (20 - 30%) CAS#: 1310-73-2	96 hours	Oncorhynchus mykiss	LC ₅₀	45.4 mg/L	IUCLID (The International Uniform Chemical Information Database)
Triethanolamine (10 - 20%) CAS#: 102-71-6	96 hours	Lepomis macrochirus	LC ₅₀	450 mg/L	IUCLID (The International Uniform Chemical Information Database)

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium hydroxide (20 - 30%)	48 Hours	Daphnia sp.	EC ₅₀	40.4 mg/L	IUCLID (The International Uniform Chemical Information
CAS#: 1310-73-2					Database)

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Product Biodegradability Data No data available.

Bioaccumulation

 Product Bioaccumulation Data

 No data available.

 Partition Coefficient (n-octanol/water)

 Not applicable

 Mobility

 Soil Organic Carbon-Water Partition Coefficient

 Not applicable

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

EN / GHS

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IMDG Proper shipping name Hazard Class UN/ID no Packing Group	Sodium Hydroxide Solution 8 UN1824 II
IATA UN/ID no Proper shipping name Hazard Class Packing Group ERG Code	UN1824 Sodium Hydroxide Solution 8 II 154
<u>DOT</u> Proper shipping name Hazard Class UN/ID no Packing Group	Sodium Hydroxide Solution 8 UN1824 II
<u>TDG</u> Proper shipping name Hazard Class UN/ID no Packing Group	Sodium Hydroxide Solution 8 UN1824 II
<u>ADR</u> Proper shipping name Hazard Class UN/ID no Packing Group	Sodium Hydroxide Solution 8 UN1824 II
ADN	Not regulated
ICAO (air)	Not regulated

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

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

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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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

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

Regulation under the WasteDispose of in accordance with federal, state and local regulationsManagement Act

Basel Convention Codes

Chemical name	CAS No.	ANNEX I	ANNEX III
Sodium hydroxide	1310-73-2	Y35 (solid or solution, listed under Basic solutions or bases in solid form)	-
Triethanolamine	102-71-6	-	-

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH	Immediately Dangerous to Life or Health
ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
NDF	no data

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
Х	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant

Prepared By

Hach Product Compliance Department

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Revision Note	None

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet