

SAFETY DATA SHEET

Issue Date 21-Jul-2016 Revision Date 13-Apr-2018 Version 3.1 Page 1/15 **1. IDENTIFICATION** Product identifier **Product Name** Potassium Hydroxide Solution 8 N Other means of identification 28249 Product Code(s) Safety data sheet number M00216 UN/ID no UN1814 Recommended use of the chemical and restrictions on use Calcium determination. Hardness determination. Buffer. Laboratory reagent. **Recommended Use** Uses advised against None. None. **Restrictions on use** Details of the supplier of the safety data sheet Manufacturer Address

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

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word - Danger

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Hazard statements

H290 - May be corrosive to metals H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Precautionary statements

P270 - Do not eat, drink or smoke when using this product

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

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/physician

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

Other Hazards Known

Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

<u>Mixture</u>

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Potassium hydroxide	1310-58-3	40 - 50%	-

4. 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.			
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.			
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. 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.			
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. 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 and effect	effects, both acute and delayed			
Symptoms	Burning sensation.			
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.			

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 gases and vapors.	
Hazardous combustion products	This material will not burn.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.	

6. ACCIDENTAL RELEASE MEASURES

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U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.			
Personal precautions, protective e	quipment and emergency procedures			
Personal precautions	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.			
Other Information	Refer to protective measures listed in Sections 7 and 8.			
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	ent and cleaning up			
Methods for containment	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.			
Reference to other sections	See section 8 for more information. See section 13 for more information.			

7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on safe handling	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.
Conditions for safe storage, inclue	ding 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.
Flammability class	Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
CAS#: 1310-58-3			

Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves. Impervious gloves.
Eye/face protection	Face protection shield.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
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. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Irritating	Liquid		Color Odor threshold	colorless No data ava	ailable
Property			Values			Remarks • Method
Molecular weigh	t		No data availa	ble		
рН			14			
Melting point/fre	ezing point		~ -45 °C / -4	9 °F		Estimation based on theoretical calculation
Boiling point / bo	biling range		~ 112 °C / 2	34 °F		Estimation based on theoretical calculation
Evaporation rate			0.18 (water = 1)		
Vapor pressure			450.495 mm H °F	lg / 60.06 kPa at 1	100 °C / 212	2
Vapor density (a	ir = 1)		0.62			
Specific gravity (water = 1 / air = 1)		1.3			
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable			
Soil Organic Car Coefficient	bon-Water Partitior	า	Not applicable			
Autoignition tem	perature		No data availa	ble		

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Decomposition temperature	No data available	
Dynamic viscosity	12.51 cP (mPa s) at 0 °C / 32 °F	
Kinematic viscosity	9.623 cSt (mm²/s) at 0 °C / 32 °F	

Solubility(ies)

Water solubility

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

Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

Other Information

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

No data available 541 mm/yr / 21.3 in/yr

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Potassium hydroxide	1310-58-3	No data available	-

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		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

10. STABILITY AND REACTIVITY

Reactivity Not applicable.

Product Code(s) 28249 Issue Date 21-Jul-2016 Version 3.1	Product Name Potassium Hydroxide Solution 8 N Revision Date 13-Apr-2018 Page 7 / 15						
<u>Chemical stability</u> Stability	Stable under normal conditions.						
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None None.						
Possibility of Hazardous Reactions Possibility of Hazardous Reactions							
Hazardous polymerization None under normal processing.							
<u>Conditions to avoid</u> Conditions to avoid	Exposure to air or moisture over prolonged periods.						
Incompatible materials Incompatible materials	Oxidizing agent. Acids. Bases.						
Hazardous Decomposition Products 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 Exp Product Information	oosure						
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	May cause irritation.						
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							
Cymptonio	Redness. Burning. May cause blindness. Coughing and/ or wheezing.						

rocicologically synergistic None Known. products Toxicokinetics, metabolism and See ingredients information below. distribution

Chemical nameToxicokinetics, metabolism and distributionPotassium hydroxide
(40 - 50%)K* starts to be toxic at levels >; 200-250mg/L. Its concentration is regulated by renal excretion/reabsorption.
The impact of the OH- on blood pH is regulated by the bicarbonate buffer system, respiration and renal
compensation.CAS#: 1310-58-3compensation.

Product Acute Toxicity Data

EN / AGHS

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

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

Acute Toxicity Estimations (ATE)

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

ATEmix (oral)	821.00 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data

Oral Exposure Route I f available, see data below							
Chemical name	Endpoint	Reported	Exposure	Toxicologica	al effects	Key literature re	
	type	dose	time			sources f	
Potassium hydroxide	Rat	333 mg/kg	None	None rep	orted	Vendor	SDS
(40 - 50%)	LD50		reported				
CAS#: 1310-58-3							
Dermal Exposure Ro	ute			If available, see da	ta below		
Inhalation (Dust/Mist) Exposure Ro	oute		If available, see da	ta below		
Inhalation (Vapor) Ex	posure Route	9		If available, see da	ta below		
Inhalation (Gas) Expo	osure Route			If available, see da	ata below		
Product Specific Tar	get Organ To	kicity Single E	xposure Data	1			
Oral Exposure Route				No data available			
Dermal Exposure Ro				No data available			
Inhalation (Dust/Mist) Exposure Re	oute		No data available			
Inhalation (Vapor) Exposure Route No data available							
Inhalation (Gas) Expo				No data available			
Ingredient Specific T	arget Organ T	Covicity Single		ata			
Oral Exposure Route		Oxicity Single		If available, see da	ta below		
Dermal Exposure Ro				If available, see da			
Inhalation (Dust/Mist)		oute		If available, see da			
Inhalation (Vapor) Ex				If available, see da			
Inhalation (Gas) Expo		•		If available, see da			
Aspiration toxicity							
If available, see data b	elow						
Kinematic viscosity9.623 cSt (mm²/s)							
Product Skin Corrosi	ion/Irritation [Data					
No data available.							
Ingredient Skin Corro		n Data					
If available, see data b	elow						
Chemical name	Test metho	od Specie	es Reporte	ed Exposure	Results	s Kev	literature

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium hydroxide	Standard Draize	Human	50 mg	24 hours	Corrosive to skin	RTECS (Registry of
(40 - 50%)	Test					Toxic Effects of
CAS#: 1310-58-3						Chemical Substances)

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No data available Product Serious Eye Damage/Eye Irritation Data No data available.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium hydroxide (40 - 50%) CAS#: 1310-58-3	Existing human experience	Human	None reported	None reported	Corrosive to eyes	ERMA (New Zealands Environmental Risk Management Authority)

Sensitization Information

<u>Product Sensitization Data</u> Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route

No data available. No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route If available, see data below.						
Chemical name	Key literature references and sources for data					
Potassium hydroxide (40 - 50%) CAS#: 1310-58-3	Intracuteaneus Test	Guinea pig	Not confirmed to be a skin sensitizer	IUCLID (The International Uniform Chemical Information Database)		

Respiratory Sensitization Exposure Route

If available, see data below.

Chronic Toxicity Information

Product Specific Target Organ Toxicity Repeat Dose Data

No data available.
No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below
Product Carcinogenicity Data	
Oral Exposure Route	No data available
Dermal Exposure Route	No data available
Inhalation (Dust/Mist) Exposure Route	No data available

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Potassium hydroxide	1310-58-3	-	-	-	-

No data available

No data available

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply

Labor)

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below

Product Germ Cell Mutagenicity *invitro* Data No data available.

Ingredient Germ Cell Mutagenicity invitro Data

Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Potassium hydroxide	Cytogenetic	Rat ascites tumor	1800 mg/kg	None	Positive test result for	
(40 - 50%)	analysis			reported	mutagenicity	of Toxic Effects of
CAS#: 1310-58-3						Chemical
						Substances)
Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Potassium hydroxide	Cytogenetic	Hamster ovary	12 mmol/L	None	Positive test result for	RTECS (Registry
(40 - 50%)	analysis			reported	mutagenicity	of Toxic Effects of
CAS#: 1310-58-3				-		Chemical
						Substances)

Product Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data Oral Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available No data available No data available No data available No data available

If available, see data below If available, see data below

No data available No data available No data available No data available No data available

If available, see data below If available, see data below If available, see data below If available, see data below

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not considered to be harmful to aquatic life

Product Ecological Data

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Aquatic toxicity

Fish Crustacea Algae

Ingredient Ecological Data

Aquatic toxicity

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No data available No data available No data available

Fish	If available, see ingredient data below				
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium hydroxide (40 - 50%) CAS#: 1310-58-3	96 hours	Gambusia affinis	LC ₅₀	80 mg/L	ERMA (New Zealands Environmental Risk Management Authority)
Crustacea Algae			data available data available		

Other Information

Persistence and degradability

Product Biodegradability Data No data available.

Ingredient Biodegradability Data

Bioaccumulation

Product Bioaccumulation Data No data available.

Partition Coefficient (n-octanol/water)

Ingredient Bioaccumulation Data

Mobility

Soil Organic Carbon-Water Partition Coefficient

Water solubility

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

Not applicable

Not applicable

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with products environmental legislation.

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Product Code(s) 28249 Issue Date 21-Jul-2016 Version 3.1	Product Name Potassium Hydroxide Solution 8 N Revision Date 13-Apr-2018 Page 12 / 15
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	D002
Special instructions for disposal	Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Flush system with plenty of water. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

14. TRANSPORT INFORMATION

U.S. DOT UN/ID no Proper shipping name Hazard Class Packing Group Emergency Response Guide Number	UN1814 Potassium Hydroxide, Solution 8 II 154
<u>TDG</u> UN/ID no Proper shipping name Hazard Class Packing Group	UN1814 Potassium Hydroxide, Solution 8 II
IATA UN/ID no Proper shipping name Hazard Class Packing Group ERG Code	UN1814 Potassium Hydroxide, Solution 8 II 154
<u>IMDG</u> UN/ID no Proper shipping name Hazard Class Packing Group	UN1814 Potassium Hydroxide, Solution 8 II
Note:	No special precautions necessary.

Note:

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

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

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

International Inventories

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EINECS/ELINCS ENCS IECSC KECL PICCS TCSI AICS	Complies Complies Complies Complies Complies Complies
NZIOC	Complies

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

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 hazard	Yes
Chronic Health Hazard	Yes
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
Potassium hydroxide 1310-58-3	1000 lb	-	-	Х

CERCLA

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)
Potassium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			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
Potassium hydroxide	X	X	Х
1310-58-3			

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Potassium hydroxide	180.0910	21 CFR 184.1631

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 3	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more 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.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet