

# **SAFETY DATA SHEET**

Be Right<sup>™</sup>

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			1. IDENTIFICA	TION			
<u>Product iden</u> Product Nam		Chromium 1	Reagent				
<u>Other means</u> Product Cod	of identification e(s)	204399					
Safety data s	sheet number	M00033					
UN/ID no		UN3262					
Recommend Uses advised	Recommended use of the chemical and restrictions on useRecommended UseLaboratory reagent. Determination of chromium.Uses advised againstConsumer use.Restrictions on useFor Laboratory Use Only.						
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

2. HAZARDS IDENTIFICATION

#### Classification

### **Regulatory Status**

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

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
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

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
P501 - Dispose of contents/ container to an approved waste disposal plant
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves, protective clothing, eye protection, and 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
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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/physician
P363 - Wash contaminated clothing before reuse
P405 - Store locked up

#### Other Hazards Known

Toxic to aquatic life

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance

Not applicable

**Mixture** 

Chemical Family Chemical nature Mixture. Mixture of inorganic salts.

#### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Sodium sulfate	7757-82-6	40 - 50%	-
Lithium hydroxide monohydrate	1310-66-3	30 - 40%	-
Hypobromous acid, lithium salt	13824-95-8	10 - 20%	-

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

General adviceImmediate medical attention is required. Show this safety data sheet to the doctor in<br/>attendance.InhalationIf breathing has stopped, give artificial respiration. Get medical attention immediately. Do<br/>not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial<br/>respiration with the aid of a pocket mask equipped with a one-way valve or other proper<br/>respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.<br/>Delayed pulmonary edema may occur. Get immediate medical advice/attention. Remove to

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	fresh air.
Eye contact	Get immediate medical advice/attention. 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.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
Ingestion	Get immediate medical advice/attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Burning sensation.
Indication of any immediate medica	al 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

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. Sulfur oxides. Hydrogen halides. Sodium oxides. Contact with metals may evolve flammable hydrogen gas.			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			

chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

#### 6. ACCIDENTAL RELEASE MEASURES

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 equipment and emergency procedures

Personal precautions Attention! Corrosive material. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

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Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
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	Take up mechanically, placing in appropriate containers for disposal.
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 In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

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

Storage ConditionsProtect from moisture. Store away from other materials. Keep containers tightly closed in a<br/>dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Flammability class Not applicable

### 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
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. Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Hand Protection	Impervious gloves. Wear suitable gloves.
Eye/face protection	Face protection shield.
Skin and body protection	Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing.

EN	1	AGHS

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General Hygiene Considerations	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this 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	powder Slight	Solid		Color Odor threshold	yellow No data available	
Property_			Values		Remarks • Method	
Molecular weight	t		Not applicable			
рН			> 12		1% Solution	
Melting point / fro	eezing point		> 400 °C /	752 °F		
Initial boiling poi	nt and boiling rang	je	No data availa	ble		
Evaporation rate			Not applicable			
Vapor pressure			Not applicable			
Relative vapor de	ensity		No data availa	able		
Specific gravity -	VALUE 1		1.48			
Partition coeffici	ent		log K <sub>ow</sub> ~ -0.68			
Soil Organic Car Coefficient	bon-Water Partition	n	log K <sub>oc</sub> ~ -0.32			
Autoignition tem	perature		No data availa	ble		
Decomposition t	emperature		No data availa	ble		
Dynamic viscosi	ty		Not applicable			
Kinematic viscos	sity		Not applicable			
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	<u>Solubility</u>	Solubility Temperature
Acid	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

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#### **Other information**

#### **Metal Corrosivity**

Steel Corrosion Rate Aluminum Corrosion Rate No data available No data available

### Volatile Organic Compounds (VOC) Content

Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium sulfate	7757-82-6	No data available	-
Lithium hydroxide monohydrate	1310-66-3	No data available	-
Hypobromous acid, lithium salt	13824-95-8	No data available	-

#### **Explosive properties**

Upper explosion limit Lower explosion limit	Not applicable Not applicable
Flammable properties	
Flash point	Not applicable
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Oxidizing properties	If available, see data below.
Test method	Department of Transportation (DOT) Oxidizer Test
Sample/Cellulose mean burn time	1:1 Sample/Cellulose mean burn time = 561 seconds
Reference/Cellulose mean burn time	3:7 Potassium bromate/Cellulose mean burn time = 91.8 seconds
Bulk density	No data available

### **10. STABILITY AND REACTIVITY**

Reactivity Not applicable.

<u>Chemical stability</u> Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Possibility of hazardous reactions None under normal processing.

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Acids. Bases. Oxidizing agent.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **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	Coughing and/ or wheezing. Redness. Burning. May cause blindness.

Acute toxicity Harmful if swallowed

### Mixture

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
Lithium hydroxide monohydrate (30 - 40%) CAS#: 1310-66-3	LD50	120 mg/kg	None reported	None reported	LOLI

#### Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Lithium hydroxide monohydrate (30 - 40%) CAS#: 1310-66-3	Rat LC₅₀	0.96 mg/L	4 hours	None reported	LOLI

#### **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)	1,374.00 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

#### Skin corrosion/irritation

Causes severe burns.

#### Mixture

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 sulfate (40 - 50%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA
Lithium hydroxide monohydrate (30 - 40%) CAS#: 1310-66-3	Existing human experience	Human	None reported	None reported	Corrosive to skin	ERMA

#### Serious eye damage/irritation

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

#### Mixture

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 sulfate (40 - 50%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	90 mg	24 hours	Not corrosive or irritating to eyes	ECHA

#### **Respiratory or skin sensitization**

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

#### Mixture

No data available.

#### **Ingredient Sensitization Data**

Test data reported below.

#### **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and
				sources for data

Sodium sulfate	OECD Test No.	Guinea pig	Not confirmed to be a skin sensitizer	HSDB
(40 - 50%)	406: Skin			
CAS#: 7757-82-6	Sensitization			

#### STOT - single exposure

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

#### **Mixture**

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.

#### Mixture

No data available.

#### Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

#### **Carcinogenicity**

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

#### Mixture

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Sodium sulfate	7757-82-6	-	-	-	-
Lithium hydroxide monohydrate	1310-66-3	-	-	-	-
Hypobromous acid, lithium salt	13824-95-8	-	-	-	-

#### 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	Does not apply

#### Germ cell mutagenicity

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

**Mixture** invitro **Data** No data available.

Substance invitro Data No data available.

Mixture invivo Data No data available.

**Substance** invivo **Data** No data available.

**Reproductive toxicity** 

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

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sodium sulfate	Mouse	14000 mg/kg	4 days	Effects on Newborn	RTECS
(40 - 50%)	TDLo			Other neonatal measures or	
CAS#: 7757-82-6				effects	

#### Aspiration hazard

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

12. ECOLOGICAL INFORMATION		
Ecotoxicity	Based on available data, the classification criteria are not met.	
Unknown aquatic toxicity	0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.	
<u>Mixture</u>		

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### **Substance**

#### 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 sulfate (40 - 50%) CAS#: 7757-82-6	96 hours	None reported	LC50	56 mg/L	IUCLID

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfate (40 - 50%) CAS#: 7757-82-6	48 Hours	Daphnia magna	EC50	3150 mg/L	IUCLID

#### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

Mixture

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No data available.	
<u>Bioaccumulation</u> MATERIAL DOES NOT BIOACCUMULATE <b>Mixture</b> No data available.	

Partition coefficient	log Kow ~ -0.68
<u>Mobility</u>	
Soil Organic Carbon-Water Partition Coefficient	log K <sub>oc</sub> ~ -0.32

### Other adverse effects

No information available

#### **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment 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.
US EPA Waste Number	D002

**Special instructions for disposal** Work in an approved fume hood. 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. Allow cold water to run for 5 minutes to completely flush the system. Dispose of material in an E.P.A. approved hazardous waste facility.

#### **14. TRANSPORT INFORMATION**

DOT UN/ID no Proper shipping name DOT Technical Name Transport hazard class(es) Packing Group Special Provisions Emergency Response Guide Number	UN3262 Corrosive Solid, Basic, Inorganic, N.O.S. Lithium hydroxide monohydrate, Hypobromous acid, lithium salt 8 II Contact with acids forms toxic fumes. 154
<u>TDG</u> UN/ID no Proper shipping name TDG Technical Name Transport hazard class(es) Packing Group	UN3262 Corrosive Solid, Basic, Inorganic, N.O.S. Lithium hydroxide monohydrate, Hypobromous acid, lithium salt 8 II
IATA UN number or ID number Proper shipping name IATA Technical Name Transport hazard class(es) Packing group	UN3262 Corrosive solid, basic, inorganic, n.o.s.* Lithium hydroxide monohydrate, Hypobromous acid, lithium salt 8 II

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ERG Code Special Provisions	8L A3, A803
IMDG	
UN number or ID number	UN3262
Proper shipping name	Corrosive solid, basic, inorganic, n.o.s.*
IMDG Technical Name	Lithium hydroxide monohydrate, Hypobromous acid, lithium salt
Transport hazard class(es)	8
Packing Group	11
EmS-No	F-A, S-B
Special Provisions	274

#### Note:

No special precautions necessary.

#### 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	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	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 Chronic Health Hazard	Yes 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)

#### **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

#### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

**IMERC:** Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium sulfate	-	Х	Х
7757-82-6			
Lithium hydroxide monohydrate	Х	-	-
1310-66-3			

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Sodium sulfate	-	21 CFR 186.1797

#### 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 - I

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

ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR	ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS	CCRIS (Chemical Carcinogenesis Research Information System)
CDC	CDC (Center for Disease Control)
CEPA	CEPA (Canadian Environmental Protection Agency)

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CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		Page 14/15         CICAD (Concise International Chemical Assessment Documents)         ECHA (The European Chemicals Agency)         EEA (European Environment Agency)         EPA (Environmental Protection Agency)         ERMA (New Zealands Environmental Risk Management Authority)         Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite <sup>TN</sup> FDA (Food & Drug Administration)         GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)         HSDB (Hazardous Substances Data Bank)         INERIS (The National Industrial Environment and Risks Institute)         IPCS INCHEM (International Programme on Chemical Safety)         IUCLID (The International Uniform Chemical Information Database)         Japan National Institute of Technology and Evaluation (NITE)         NIH (National Institute of Occupational Safety and Health)         LOLI (List of Lists - An International Chemical Regulatory Database)         no data         Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)         Immediately Dangerous to Life or Health         OSHA (Occupational Safety and Health Administration of the US Department of Labor)         PEEN (Pan European Ecological Network)         RTECS (Registry of Toxic Effects of Chemical Substances)         SIDS (Screening Information Dataset) for High Volume Chemicals         The Finnish Environment		
Legend - Sectio	n 8: EXPOSURE C	ONTROLS/PERSONAL P	ROTECTION	
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowab	le 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 sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance	ce Department	
Issue Date		05-Sep-2019		

Revision Date

Revision Note

**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

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None

EN / AGHS

WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

HACH COMPANY©2023

End of Safety Data Sheet