

# **SAFETY DATA SHEET**

Be Right<sup>™</sup>

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	1. IDENTIFICATI	ON		
Product identifier Product Name	Chloride Ampule 12500 mg/L			
Other means of identification Product Code(s)	1425010			
Safety data sheet number	M01183			
Recommended use of the che	mical and restrictions on use			
Recommended Use	Standard solution. Water Analysis.			
Uses advised against	None.			
Restrictions on use	None.			
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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

Signal word None

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### Other Hazards Known

None

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

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#### Substance Not applicable

#### <u>Mixture</u>

#### **Chemical Family**

Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Methanol	67-56-1	<0.1%	-
Formaldehyde	50-00-0	<0.1%	-

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	See Section 11 for additional Toxicological Information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# **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	No information available.
Hazardous combustion products	No information available.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 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	Ensure adequate ventilation.		
Environmental precautions			
Environmental precautions	See Section 12 for additional ecological information.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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 Handle in accordance with good industrial hygiene and safety practice. Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability class Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Methanol	STEL: 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
CAS#: 67-56-1	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
		(vacated) TWA: 260 mg/m <sup>3</sup>	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 325 mg/m <sup>3</sup>
		(vacated) STEL: 325 mg/m <sup>3</sup>	
		(vacated) SKN*	
Formaldehyde	dermal sensitizer;respiratory	TWA: 0.75 ppm	IDLH: 20 ppm
CAS#: 50-00-0	sensitizer	(vacated) TWA: 3 ppm	Ceiling: 0.1 ppm 15 min
	STEL: 0.3 ppm	(vacated) STEL: 10 ppm	TWA: 0.016 ppm
	TWA: 0.1 ppm	(vacated) Ceiling: 5 ppm	
		STEL: 2 ppm	

#### Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations

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	Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Individual protection measures, su	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. Wear breathing apparatus if exposed to vapors/dusts/aerosols.
Hand Protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
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	Liquid aqueous solution Odorless		Color Odor threshold	colorless No data avai	lable	
Property_		<u>Values</u>			Remarks • Method	
Molecular weight	t	No data availa	No data available			
рН		4.7			@ 20 °C	
Melting point / fro	eezing point	-1 °C / 30.2	2°F			
Initial boiling poi	nt and boiling range	~ 100 °C /	212 °F			
Evaporation rate		0.99 (water = 1)				
Vapor pressure		24.002 mm Hg / 3.2 kPa at 25 °C / 77 °F				
Relative vapor de	ensity	0.62				
Specific gravity -	VALUE 1	0.998				
Partition coefficie	ent	Not applicable				
Soil Organic Carl	bon-Water Partition	Not applicable				
Autoignition tem	perature	No data availa	ble			
Decomposition to	emperature	No data availa	ble			
Dynamic viscosi	ty	1 cP (mPa s)	at 20 °C / 68 °F			

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#### **Kinematic viscosity**

1.002 cSt (mm<sup>2</sup>/s) at 20 °C / 68 °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	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other information**

#### **Metal Corrosivity**

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

# Volatile Organic Compounds (VOC) Content

See ingredients information below

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Methanol	67-56-1	100%	Х
Formaldehyde	50-00-0	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.

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

Explosion data

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#### Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Possibility of hazardous reactions

None under normal processing.

#### Hazardous polymerization

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### Mixture

No data available.

#### **Ingredient Acute Toxicity Data**

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat LD₅₀	100 mg/kg	None reported	None reported	GESTIS
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rabbit LD₅₀	270 mg/kg	None reported	None reported	GESTIS
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat LC₅₀	0.578 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)**

ATEmix (oral)	No information available
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

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

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		None reported	20 hours	Not corrosive or irritating to skin	ECHA
Formaldehyde (<0.1%) CAS#: 50-00-0	Standard Draize Test	Human	0.150 mg	72 hours	Corrosive to skin	RTECS

# Serious eye damage/irritation

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

#### Mixture

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		0.05 mL	24 hours	Not corrosive or irritating to eyes	ECHA
Formaldehyde (<0.1%) CAS#: 50-00-0	Rinse Test	Human	1 ppm	6 minutes	Corrosive to eyes	RTECS

**Respiratory or skin sensitization** 

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

#### Mixture

No data available.

# **Ingredient Sensitization Data**

No data available.

Chemical name	Test method	Species	Results	Key literature references and sources for data
Methanol	OECD Test No.	Guinea pig	Not confirmed to be a skin sensitizer	ECHA
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(<0.1%) CAS#: 67-56-1	406: Skin Sensitization			
Formaldehyde (<0.1%) CAS#: 50-00-0	Patch test	Human	Confirmed to be a skin sensitizer	ERMA
Chemical name	Test method	Species	Results	Key literature references and sources for data

#### 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.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	Human LD⊾₀	143 mg/kg	None reported	Lungs, Thorax, or Respiration Dyspnea	RTECS
Formaldehyde (<0.1%) CAS#: 50-00-0	Human LDLo	70 mg/kg	None reported	Gastrointestinal Kidney, Ureter, or Bladder Liver Other changes Ulcerated stomach Other changes	RTECS
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	Human TC∟₀	300 mg/L	None reported	Lungs, Thorax, or Respiration Other changes	RTECS

#### 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.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	Monkey	2340 mg/kg	3 days	None reported	ECHA
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Human TC∟₀	0.017 mg/L	0.5 days	Eye Lungs, Thorax, or Respiration Lacrimation Other changes	RTECS

# 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
Methanol	67-56-1	-	-	-	-
Formaldehyde	50-00-0	A1	Group 1	Known	Х

#### 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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat	15 mg/L	78 weeks	Olfaction Tumors	RTECS

#### 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.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	DNA inhibition	Human lymphocyte	300 mmol/L	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo Data

No data available.

#### Substance invivo Data

No data available.

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Methanol (<0.1%) CAS#: 67-56-1	DNA damage	Rat	0.405 mg/kg	None reported	Positive test result for mutagenicity	RTECS
Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Micronucleus test	Human	.000985 mg/L	8.5 years	Positive test result for mutagenicity	RTECS

#### Reproductive toxicity

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

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

No data available.

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Methanol	Rat	4118 mg/kg	10 days	Effects on Embryo or Fetus	RTECS
(<0.1%)	TDLo			Specific Developmental	
CAS#: 67-56-1				Abnormalities	
				Ear	
				Eve	
				Fetotoxicity (except death e.g.	
				stunted fetus)	
				Urogenital System	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	5	sources for data
Methanol	Rat	0.0026 mg/L	22 days	Effects on Embryo or Fetus	RTECS
(<0.1%)	TCLo	J. J	-	Fetotoxicity (except death e.g.	
CAS#: 67-56-1				stunted fetus)	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	5	sources for data
Formaldehyde	Rat	40 mg/L	14 days	Effects on Embryo or Fetus	RTECS
(<0.1%)	TCLO	Ŭ		Fetotoxicity (except death e.g.	
CAS#: 50-00-0				stunted fetus)	

#### 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 No data available.

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	96 hours	Morone saxatilis	LC <sub>50</sub>	6.7 mg/L	PEEN
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	48 Hours	Daphnia pulex	EC <sub>50</sub>	5.8 mg/L	PEEN

#### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

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<b>Mixture</b> No data available.		
<b>Mixture</b> No data available.		
Partition coefficient		Not applicable
Mobility		
Soil Organic Carbon-Water Partit	ion Coefficient	Not applicable
Other adverse effects No information available		
	13. DISPOSA	AL CONSIDERATIONS
Waste treatment methods		
Waste from residues/unused products	Dispose of in accord environmental legisla	lance with local regulations. Dispose of waste in accordance with ation.
Contaminated packaging	Do not reuse empty	containers.
US EPA Waste Number	U154 U122	

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methanol	-	Included in waste stream:	-	U154
67-56-1		F039		
Formaldehyde	U122	Included in waste	-	U122
50-00-0		streams: K009, K010,		
		K038, K040, K156, K157		

**Special instructions for disposal** Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. 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. Check with national, local municipal and state authorities and waste contractors for pertinent local information on the disposal of this article.

14. TRANSPORT INFORMATION				
DOT	Not regulated			
TDG	Not regulated			
IATA	Not regulated			
IMDG	Not regulated			
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 DSL/NDSL

Complies 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

Chemical name	SARA 313 - Threshold Values %
Methanol (CAS #: 67-56-1)	1.0
Formaldehyde (CAS #: 50-00-0)	0.1
SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb	-	-	Х

#### <u>CERCLA</u>

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methanol	5000 lb	-	RQ 5000 lb final RQ

67-56-1			RQ 2270 kg final RQ		
Formaldehyde	100 lb	100 lb	RQ 100 lb final RQ		
50-00-0			RQ 45.4 kg final RQ		
U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues					

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Formaldehyde (<0.1%) CAS#: 50-00-0	Release - Toxic (solution)

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Methanol (CAS #: 67-56-1)	Developmental
Formaldehyde (CAS #: 50-00-0)	Carcinogen

**WARNING:** This product can expose you to chemicals including Formaldehyde, Methyl alcohol, which are known to the State of California to cause cancer or birth defects or reproductive harm. For more information, go to <u>http://www.P65Warnings.ca.gov</u>

#### 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
Methanol 67-56-1	Х	Х	Х
Formaldehyde 50-00-0	Х	X	Х

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Methanol	180.0910	-

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

# Special Comments

None

#### Additional information

#### Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Methanol 67-56-1	Declarable Substance (FI) Declarable Substance (LR) Prohibited Substance (FI) Prohibited Substance (LR)	0.6 %
Formaldehyde	Prohibited Substance (FI)	0.1 %

50-00-0	Prohibited Substance (LR)	
	Declarable Substance (LR)	
	Declarable Substance (FI)	

### **NFPA and HMIS Classifications**

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection -
			-	X
				- 1

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

ACGIH ATSDR CCRIS	ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System)
CDC	CDC (Center for Disease Control)
CEPA	CEPA (Canadian Environmental Protection Agency)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)
ERMA	ERMA (New Zealands Environmental Risk Management Authority)
ECOSARS FDA	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
GESTIS	FDA (Food & Drug Administration)
GESTIS	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM	IPCS INCHEM (International Programme on Chemical Safety)
IUCLID	IUCLID (The International Uniform Chemical Information Database)
NITE	Japan National Institute of Technology and Evaluation (NITE)
NIH	NIH (National Institutes of Health)
NIOSH	NIOSH (National Institute for Occupational Safety and Health)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
NDF	no data
NICNAS NIOSH IDLH	Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEEN	PEEN (Pan European Ecological Network)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS	SIDS (Screening Information Dataset) for High Volume Chemicals
SYKE	The Finnish Environment Institute (SYKE)
USDA	USDA (United States Department of Agriculture)
USDC	USDC (United States Department of Commerce)
WHO	WHO (World Health Organization)

# 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.

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SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	tization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Complian	ce Department	
Issue Date		19-07-2019		
<b>Revision Date</b>		26-Jan-2024		
<b>Revision Note</b>		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** 



# **SAFETY DATA SHEET**

Be Right<sup>™</sup>

Issue Date 18-02-2019	Revision Date 26-Jan-2024	Version 1.8	Page	1 / 13
	1. IDENTIFICA	ΓΙΟΝ		
Product identifier Product Name	Chloride Ionic Strength Adjustme	ant Buffer Powder Pillows		
Other means of identification Product Code(s)	2318069			
Safety data sheet number	M00123			
Recommended use of the chemical and restrictions on useRecommended UseBuffer. Water Analysis.Uses advised againstNone.Restrictions on useNone.				
Details of the supplier of the safety data sheet				
<b>Manufacturer Address</b> Hach Company, P.O.Box 389, L	oveland, 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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

# Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word Danger



Hazard statements

EN / AGHS

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H315 - Causes skin irritation H318 - Causes serious eye damage

#### Precautionary statements

P280 - Wear protective gloves, protective clothing, eye protection, and face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical attention
P362 - Take off contaminated clothing and wash before reuse
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

#### Other Hazards Known

May be harmful if swallowed Harmful to aquatic life

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

Substance

Not applicable

**Mixture** 

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

Chemical name	CAS No	Percent Range	HMRIC #
Sodium sulfate	7757-82-6	40 - 50%	-
Butanedioic acid	110-15-6	10 - 13%	-

#### **4. FIRST AID MEASURES**

# **Description of first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.		
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.		
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 for at least 15 minutes. Get medical attention if irritation develops and persists.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.		
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.		
Most important symptoms and effe	Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

Product NameChloride Ionic Strength Adjustment BufferPowder PillowsRevision DateRevision Date26-Jan-2024Page3 / 13

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	No information available.	
Hazardous combustion products	Carbon monoxide, Carbon dioxide. Sodium oxides. Sulfur oxides.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
	6. ACCIDENTAL RELEASE MEASURES	
	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 e	quipment and emergency procedures	
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.	
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.	
Methods and material for containment 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
 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. Take off contaminated clothing and wash before reuse.

 Conditions for safe storage, including any incompatibilities

# Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.<br/>Keep out of the reach of children.

Product NameChloride Ionic Strength Adjustment BufferPowder Pillows26-Jan-2024Page4 / 13

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.	
Individual protection measures, suc Respiratory protection	<u>ch as personal protective equipment</u> 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	Tight sealing safety goggles.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Wash contaminated clothing before reuse.	
General Hygiene Considerations	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 stateAppearancepowrOdorOdo	Solid der rless		Color Odor threshold	white No data available
Property_		Values		Remarks • Method
Molecular weight		No data availat	ble	
рН		4.87		@ 20 °C
Melting point / freezing	g point	186 °C / 36	6.8 °F	
Initial boiling point and	d boiling range	No data availat	ble	
Evaporation rate		Not applicable		
Vapor pressure		Not applicable		
Relative vapor density	1	No data availa	able	

Product Code(s) 2318069	<b>Product Name</b> Chloride Ionic Strength Adjustment Buffer Powder Pillows
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Specific gravity - VALUE 1	2.28
Partition coefficient	log Kow ~ -2.58
Soil Organic Carbon-Water Partition	log K <sub>oc</sub> ~ -0.42
Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	Not applicable
Kinematic viscosity	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	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

# **Other information**

#### **Metal Corrosivity**

Steel Corrosion Rate	0.13 mm/yr / 0.01 in/yr
Aluminum Corrosion Rate	1.07 mm/yr / 0.04 in/yr

# 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	-
Butanedioic acid	110-15-6	No data available	Х

# **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
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

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

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous decomposition products

Carbon oxides. Sulfur oxides.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Inhalation	May cause irritation of respiratory tract.
Eye contact	Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### Mixture

No data available.

#### Ingredient Acute Toxicity Data

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Butanedioic acid (10 - 13%) CAS#: 110-15-6	Rat LD <sub>50</sub>	2260 mg/kg	None reported	None reported	Vendor SDS

#### **Unknown Acute Toxicity**

0.01% 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)	2,632.00 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

Classification based on data available for ingredients. Irritating to skin.

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

No data available.

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

#### 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

No data available.

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
Butanedioic acid (10 - 13%) CAS#: 110-15-6	Standard Draize Test	Rabbit	0.750 mg	None reported	Corrosive to eyes	ECHA

#### Respiratory or skin sensitization

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

#### Mixture

No data available.

#### **Ingredient Sensitization Data**

No data available.

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium sulfate (40 - 50%)	OECD Test No. 406: Skin	Guinea pig	Not confirmed to be a skin sensitizer	HSDB

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	-	-	-	-
Butanedioic acid	110-15-6	-	-	-	-

#### 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.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Butanedioic acid (10 - 13%) CAS#: 110-15-6	DNA inhibition	Human fibroblast	None reported	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo Data No data available.

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

#### **Reproductive toxicity**

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

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium sulfate (40 - 50%) CAS#: 7757-82-6	Mouse TD∟₀	14000 mg/kg	4 days	Effects on Newborn Other neonatal measures or effects	RTECS

#### 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

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

#### **Mixture**

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### **Substance**

#### Aquatic Acute Toxicity No data available.

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	LC <sub>50</sub>	56 mg/L	IUCLID
Butanedioic acid (10 - 13%) CAS#: 110-15-6	96 hours	None reported	LC <sub>50</sub>	None reported	ECOSARS
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	EC <sub>50</sub>	3150 mg/L	IUCLID
Butanedioic acid (10 - 13%) CAS#: 110-15-6	48 Hours	None reported	EC <sub>50</sub>	918830 mg/L	ECOSARS
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Butanedioic acid (10 - 13%) CAS#: 110-15-6	96 hours	None reported	EC <sub>50</sub>	254630 mg/L	ECOSARS

Aquatic Chronic Toxicity

Product NameChloride Ionic Strength Adjustment BufferPowder PillowsPowder PillowsRevision Date26-Jan-2024Page9 / 13

Product Code(s) 2318069 Issue Date 18-02-2019 Version 1.8		Product Name Powder Pillows Revision Date Page 10 / 13	Chloride Ionic Strength Adjustment Buffer 26-Jan-2024			
No data available.						
Persistence and degradability						
<b>Mixture</b> No data available.						
<u>Bioaccumulation</u> MATERIAL DOES NOT BIOACCUMU <b>Mixture</b> No data available.	ILATE					
Partition coefficient		log Kow ~ -2.58				
Mobility						
Soil Organic Carbon-Water Partition	n Coefficient	log K <sub>oc</sub> ~ -0.42				
Other adverse effects No information available						
	13. DISPOSAL C	13. DISPOSAL CONSIDERATIONS				
Waste treatment methods						
Waste treatment methods Waste from residues/unused products		e with local regula	ations. Dispose of waste in accordance with			
Waste from residues/unused	Dispose of in accordance	e with local regula				
Waste from residues/unused products	Dispose of in accordance environmental legislation Do not reuse empty cont Dilute to 3 to 5 times the alkali, such as soda ash pour the reacted material	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			
Waste from residues/unused products Contaminated packaging	Dispose of in accordance environmental legislation Do not reuse empty cont Dilute to 3 to 5 times the alkali, such as soda ash	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			
Waste from residues/unused products Contaminated packaging	Dispose of in accordance environmental legislation Do not reuse empty cont Dilute to 3 to 5 times the alkali, such as soda ash pour the reacted material	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			
Waste from residues/unused products Contaminated packaging Special instructions for disposal	Dispose of in accordance environmental legislation Do not reuse empty conta Dilute to 3 to 5 times the alkali, such as soda ash pour the reacted material <b>14. TRANSPOR</b>	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			
Waste from residues/unused products Contaminated packaging Special instructions for disposal	Dispose of in accordance environmental legislation Do not reuse empty conta Dilute to 3 to 5 times the alkali, such as soda ash pour the reacted material <b>14. TRANSPOR</b> Not regulated	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			
Waste from residues/unused products Contaminated packaging Special instructions for disposal DOT TDG	Dispose of in accordance environmental legislation Do not reuse empty conta Dilute to 3 to 5 times the alkali, such as soda ash pour the reacted material <b>14. TRANSPOR</b> Not regulated Not regulated	e with local regula ainers. volume with cold or sodium bicarbo l to the drain.	ations. Dispose of waste in accordance with water. Adjust to a pH between 6 and 9 with an onate. Open cold water tap completely, slowly			

#### 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		

EN / AGHS

**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

Yes
No
No
No
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

#### 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			

### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA
Sodium sulfate	-	21 CFR 186.1797
Butanedioic acid	-	21 CFR 184.1091

# 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 -
				- 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)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)
ERMA	ERMA (New Zealands Environmental Risk Management Authority)
ECOSARS	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
FDA	FDA (Food & Drug Administration)
GESTIS	GESTIS (Information System on Hazardous Substances of the German Social Accident
	Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM	IPCS INCHEM (International Programme on Chemical Safety)
IUCLID	IUCLID (The International Uniform Chemical Information Database)
NITE	Japan National Institute of Technology and Evaluation (NITE)
NIH	NIH (National Institutes of Health)
NIOSH	NIOSH (National Institute for Occupational Safety and Health)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
NDF	no data
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH IDLH	Immediately Dangerous to Life or Health
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEEN	PEEN (Pan European Ecological Network)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS	SIDS (Screening Information Dataset) for High Volume Chemicals
SYKE	The Finnish Environment Institute (SYKE)
USDA	USDA (United States Department of Agriculture)

Product NameChloride Ionic Strength Adjustment BufferPowder Pillows26-Jan-2024Page13 / 13

USDC	USDC (United States Department of Commerce)
WHO	WHO (World Health Organization)

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowat	ble 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	tization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliand	ce Department	
Issue Date		18-02-2019		
<b>Revision Date</b>		26-Jan-2024		
<b>Revision Note</b>		None		
Disclaimor				

**Disclaimer** 

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End of Safety Data Sheet



# SAFETY DATA SHEET

Version 4

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# **1. IDENTIFICATION**

Product	identifier	
Troduct	lacitutici	

Product Name

Issue Date 03-May-2021

Chloride Reference Standard Solution 0.0282N

Revision Date 14-Mar-2024

Other means of identification	
Product Code(s)	18349

Safety data sheet number M00764

Recommended use of the chemical and restrictions on useRecommended UseStandard solution. Water Analysis.Uses advised againstNone.Restrictions on useNone.

#### 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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

Signal word None

#### Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### Other Hazards Known

None

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

EN / AGHS

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# Substance

Not applicable

## <u>Mixture</u>

Percent ranges are used where confidential product information is applicable.

Chem	CAS No.	Percent Range	HMRIC #	
Form	aldehyde	50-00-0	<0.1%	-
	4. FIRST AID MEASURES	6		
Description of first aid measures				
General advice	No hazards which require special first aid measures. Use first aid treatment according to th nature of the injury.			
Inhalation	Remove to fresh air.			
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids Consult a physician.			
Skin contact	Wash skin with soap and water.			
Ingestion	Clean mouth with water and drink afterwa	rds plenty of water.		
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	See Section 11 for additional Toxicologica	al Information.		
Indication of any immediate medica	al attention and special treatment needed	<u>L</u>		
Note to physicians	Treat symptomatically.			
	5. FIRE-FIGHTING MEASUF	RES		
Suitable Extinguishing Media	Use extinguishing measures that are appr surrounding environment.	opriate to local circum	stances and th	e
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting	fire may be inefficient		
Specific hazards arising from the chemical	No information available.			
Hazardous combustion products	No information available.			
Special protective equipment for	Firefighters should wear self-contained br	eathing apparatus and	full firefighting	turnout gea

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection equipment.

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

fire-fighters

respond to a spill involving chemicals.

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containme	nt and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, includi	ing any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Flammability class	Not applicable	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Formaldehyde	TWA: 0.1 ppm	TWA: 0.75 ppm	IDLH: 20 ppm
CAS#: 50-00-0	STEL: 0.3 ppm	(vacated) TWA: 3 ppm	Ceiling: 0.1 ppm 15 min
	dermal sensitizer;respiratory	(vacated) STEL: 10 ppm	TWA: 0.016 ppm
	sensitizer	(vacated) Ceiling: 5 ppm	
		STEL: 2 ppm	

#### Appropriate engineering controls Engineering Controls

Showers

Eyewash stations

Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Individual protection measures, such 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.

Product Code(s) 18349 Issue Date 03-May-2021 Version 4	Product Name Chloride Reference Standard Solution 0.0282N Revision Date 14-Mar-2024 Page 4 / 14
Hand Protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
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 Odorless	Liquid		Color Odor threshold	colorless No data availat	ble
Property			Values		R	emarks • Method
Molecular weight	t		No data availa	ble		
рН			7.0		@	20 °C
Melting point / fro	eezing point		~ 0 °C / 32	2°F		
Initial boiling poi	nt and boiling rang	je	~ 100 °C /	212 °F		
Evaporation rate			0.85 (water = 1	)		
Vapor pressure			17.477 mm Hg	/ 2.33 kPa at 2	0°C / 68°F	
Relative vapor de	ensity		0.62			
Specific gravity -	VALUE 1		0.99			
Partition coefficie	ent		Not applicable			
Soil Organic Carl	bon-Water Partition	า	Not applicable			
Autoignition tem	perature		No data availa	ble		
Decomposition to	emperature		No data availa	ble		
Dynamic viscosi	ty		~ 1 cP (mPa s)	) at 20 °C / 68 °	=	
Kinematic viscos	sity		~ 1.01 cSt (mm	n²/s) at 20 °C / 6	8 °F	
Solubility(ies)						

# Water solubility

Soluble > 1000 mg/L 25 °C / 7	77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Aqueous alkaline solutions	Soluble	> 1000 mg/L	25 °C / 77 °F
Most Polar Organic Solvents			
Aqueous alkaline solutions	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other information**

**Metal Corrosivity** 

#### Steel Corrosion Rate Aluminum Corrosion Rate

No data available No data available

#### Volatile Organic Compounds (VOC) Content

See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Formaldehyde	50-00-0	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.

#### <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

EN / AGHS

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None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

None known based on information supplied.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### Product Information

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### 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
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat LD50	100 mg/kg	None reported	None reported	GESTIS

#### **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rabbit LD₅₀	270 mg/kg	None reported	None reported	GESTIS

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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat LC <sub>50</sub>	0.578 mg/L	4 hours	None reported	LOLI

#### Unknown Acute Toxicity

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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)	No information available
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

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

#### 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
Formaldehyde (<0.1%) CAS#: 50-00-0	Standard Draize Test	Human	0.150 mg	72 hours	Corrosive to skin	RTECS

#### Serious eye damage/irritation

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

#### 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
Formaldehyde (<0.1%) CAS#: 50-00-0	Rinse Test	Human	1 ppm	6 minutes	Corrosive to eyes	RTECS

#### **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
Formaldehyde (<0.1%) CAS#: 50-00-0	Patch test	Human	Confirmed to be a skin sensitizer	ERMA

#### **Respiratory Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Formaldehyde (<0.1%)	IgE Specific Immune Response	Guinea pig	Confirmed to be a respiratory sensitizer	CICAD
CAS#: 50-00-0	Test			

#### 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

Test data reported below.

#### Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Human LDLo	70 mg/kg	None reported	Gastrointestinal Kidney, Ureter, or Bladder Liver Other changes Ulcerated stomach Other changes	RTECS

#### 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

Test data reported below.

#### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Human TC∟₀	0.017 mg/L	0.5 days	Eye Lungs, Thorax, or Respiration Lacrimation Other changes	RTECS

#### **Carcinogenicity**

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

#### Mixture

No data available.

#### Ingredient Carcinogenicity Data

Test data reported below.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Formaldehyde	50-00-0	A1	Group 1	Known	Х

#### Legend

EN / AGHS

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

#### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat	15 mg/L	78 weeks	Olfaction Tumors	RTECS

#### 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.

no uala avaliable.

Mixture invivo Data No data available.

#### Substance invivo Data

Test data reported below.

#### Inhalation (Vapor) Exposure Route

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Micronucleus test	Human	.000985 mg/L	8.5 years	Positive test result for mutagenicity	RTECS

#### Reproductive toxicity

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

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

Test data reported below.

#### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat TC∟₀	40 mg/L	14 days	Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus)	RTECS

#### 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.

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#### 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
Formaldehyde (<0.1%) CAS#: 50-00-0	96 hours	Morone saxatilis	LC50	6.7 mg/L	PEEN

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	48 Hours	Daphnia pulex	EC50	5.8 mg/L	PEEN

#### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

# Mixture

No data available.

Bioaccumulation Material does not bioaccumulate **Mixture** No data available.

#### Partition coefficient

**Mobility** 

**Soil Organic Carbon-Water Partition Coefficient** 

. . .

Other adverse effects No information available

# **13. DISPOSAL CONSIDERATIONS**

Not applicable

Not applicable

# Waste treatment methods

# Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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#### Contaminated packaging

Do not reuse empty containers.

U122 U154

#### US EPA Waste Number

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formaldehyde	U122	Included in waste	-	U122
50-00-0		streams: K009, K010,		
		K038, K040, K156, K157		

#### Special instructions for disposal

al If permitted by regulation. Open cold water tap completely, slowly pour the material to the drain. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

	14. TRANSPORT INFORMATION
DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG_	Not regulated
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

Chemical name	SARA 313 - Threshold Values %
Formaldehyde (CAS #: 50-00-0)	0.1
SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb	-	-	Х

#### <u>CERCLA</u>

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Formaldehyde	100 lb	100 lb	RQ 100 lb final RQ
50-00-0			RQ 45.4 kg final RQ

#### U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Formaldehyde (<0.1%)	Release - Toxic (solution)
CAS#: 50-00-0	

# US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Formaldehyde (CAS #: 50-00-0)	Carcinogen

**WARNING:** This product can expose you to chemicals including Formaldehyde, which is known to the State of California to cause cancer.

For more information, go to <u>http://www.P65Warnings.ca.gov</u>

#### 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
--	---------------	------------	---------------	--------------

Formaldehyde	Х	Х	Х
50-00-0			

#### **U.S. EPA Label Information**

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

# **Special Comments**

None

#### Additional information

# Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Formaldehyde 50-00-0	Prohibited Substance (FI) Prohibited Substance (LR)	0.1 %
	Declarable Substance (LR)	
	Declarable Substance (FI)	

# NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection -
				X
				- 1

# 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)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)
ERMA	ERMA (New Zealands Environmental Risk Management Authority)
ECOSARS	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
FDA	FDA (Food & Drug Administration)
GESTIS	GESTIS (Information System on Hazardous Substances of the German Social Accident
	Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM	IPCS INCHEM (International Programme on Chemical Safety)
IUCLID	IUCLID (The International Uniform Chemical Information Database)
NITE	Japan National Institute of Technology and Evaluation (NITE)
NIH	NIH (National Institutes of Health)
NIOSH	NIOSH (National Institute for Occupational Safety and Health)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
NDF	no data
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH IDLH	Immediately Dangerous to Life or Health
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEEN	PEEN (Pan European Ecological Network)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)

SIDS SYKE USDA USDC WHO		SIDS (Screening Inform The Finnish Environme USDA (United States D USDC (United States D WHO (World Health Or	nt Institute (SYKE) Department of Agricu Department of Comm	ulture)
Legend - Sectio	on 8: EXPOSURE C	ONTROLS/PERSONAL	PROTECTION	
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowal	ble 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*	Skin designation	i	SKN+	Skin sensitization
RSP+ C M	Respiratory sensi Carcinogen mutagen	lization	R	Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliar	nce Department	
Issue Date		03-May-2021		
<b>Revision Date</b>		14-Mar-2024		
<b>Revision Note</b>		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.

HACH COMPANY ©2024

End of Safety Data Sheet



# **SAFETY DATA SHEET**

Issue Date 10-Oct-2019	Revision Date 26-Jan-2024	Version 3.8	Page	1 / 14
	1. IDENTIFICA	TION		
<u>Product identifier</u> Product Name	Chloride Standard Solution 0.00	1282 N		
Other means of identification Product Code(s)	2370853			
Safety data sheet number	M00996			
Recommended use of the cher	nical and restrictions on use			
Recommended Use	Standard solution. Determination	n of chloride.		
Uses advised against	Consumer use.			
Restrictions on use	For Laboratory Use Only.			
Details of the supplier of the sa	afety 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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

Signal word None

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### Other Hazards Known

None

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

Product NameChloride Standard Solution 0.00282 NRevision Date26-Jan-2024Page2 / 14

Substance Not applicable

<u>Mixture</u>

Chemical	Family
Chemical	nature

Mixture. aqueous solution.

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

Chemical name	CAS No	Percent Range	HMRIC #
Glutaraldehyde	111-30-8	<0.1%	-

# **4. FIRST AID MEASURES**

# **Description of first aid measures**

General advice	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	See Section 11 for additional Toxicological Information.	
Indication of any immediate medica	al attention and special treatment needed	
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	

	surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 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	Ensure adequate ventilation.		
Environmental precautions			
Environmental precautions	See Section 12 for additional ecological information.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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
 Handle in accordance with good industrial hygiene and safety practice.

 Conditions for safe storage, including any incompatibilities
 Exercise Conditions

 Storage Conditions
 Keep containers tightly closed in a dry, cool and well-ventilated place.

 Flammability class
 Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Glutaraldehyde	dermal sensitizer;respiratory	(vacated) Ceiling: 0.2 ppm	Ceiling: 0.2 ppm
CAS#: 111-30-8	sensitizer	(vacated) Ceiling: 0.8 mg/m <sup>3</sup>	Ceiling: 0.8 mg/m <sup>3</sup>
	Ceiling: 0.05 ppm activated		
	or unactivated		

#### Appropriate engineering controls Engineering Controls

Showers Eyewash stations

Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Individual protection measures, such 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.
Hand ProtectionWear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemica resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.
Eye/face protectionWear safety glasses with side shields (or goggles).
Skin and body protection No special protective equipment required. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b> Local authorities should be advised if significant spillages cannot be contained. Do not allo 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 Odorless	Liquid		Color Odor threshold	colorless No data ava	ailable
Property_			Values			Remarks • Method
Molecular weight	:		No data availat	ble		
рН			7.0			@ 20 °C
Melting point / fro	ezing point		~ 0 °C / 32	°F		
Initial boiling poi	nt and boiling rang	e	~ 100 °C /	212 °F		
Evaporation rate			0.8 (water = 1)			
Vapor pressure			23.777 mm Hg	/ 3.17 kPa at 2	5 °C / 77 °F	=
Relative vapor de	ensity		0.62			
Specific gravity -	VALUE 1		0.9988			
Partition coefficie	ent		Not applicable			
Soil Organic Carl	bon-Water Partition		Not applicable			
Autoignition tem	perature		No data availat	ble		
Decomposition te	emperature		No information	available		
Dynamic viscosi	.у		~ 1 cP (mPa s)	at 20 °C / 68 °	F	
Kinematic viscos	ity		~ 1.001 cSt (m	m²/s) at 20 °C /	68 °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	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Most Polar Organic Solvents	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Other information**

**Metal Corrosivity** 

#### Steel Corrosion Rate Aluminum Corrosion Rate

0.23 mm/yr / 0.01 in/yr No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Glutaraldehyde	111-30-8	100%	-

# **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

# **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

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### 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
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat LD50	134 mg/kg	None reported	None reported	GESTIS

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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat LC₅₀	0.39 mg/L	4 hours	None reported	ECHA

#### **Unknown Acute Toxicity**

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

# Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
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

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

#### 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
Glutaraldehyde (<0.1%) CAS#: 111-30-8	OECD Test 404: Acute Dermal Corrosion/Irritation	Rabbit	0.5 mL	4 hours	Corrosive to skin	ECHA

#### Serious eye damage/irritation

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

#### 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
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Standard Draize Test	Rabbit	0.1 mL	24 hours	Corrosive 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
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Open Epicutaneous Test	Guinea pig	Confirmed to be a skin sensitizer	ECHA

# **Respiratory Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Based on human experience	Human	Confirmed to be a respiratory sensitizer	NITE

# 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** Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat NOAEL	29.9 mg/kg	90 days	Nutritional and Gross Metabolic Weight loss or decreased weight gain	ECHA

# Dermal Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat NOAEL	150 mg/kg	90 days	No toxicological effects observed	ECHA

#### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat NOAEC	0.125 mg/L	730 days	Nutritional and Gross Metabolic Weight loss or decreased weight gain	ECHA

#### **Carcinogenicity**

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

#### Mixture

No data available.

# Ingredient Carcinogenicity Data

Test data reported below.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Glutaraldehyde	111-30-8	-	-	-	-

#### 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

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Rat TD∟₀	2912 mg/kg	2 years	<b>Blood</b> Leukemia	RTECS

#### Germ cell mutagenicity

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

#### Mixture invitro Data

No data available.

#### Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	Mutation in microorganisms	Salmonella typhimurium	5 mg/plate	None reported	Positive test result for mutagenicity	ECHA

#### Mixture invivo Data

No data available.

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

#### Reproductive toxicity

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 I	name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Glutaralde (<0.1% CAS#: 111	5) Í	Rat NOAEL	500 ppm	Multiple generations	No reproductive or developmental toxic effects observed	ECHA

# 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**

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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
Glutaraldehyde (<0.1%) CAS#: 111-30-8	96 hours	None reported	LC50	3.5 mg/L	GESTIS

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	48 Hours	None reported	EC <sub>50</sub>	0.75 mg/L	GESTIS

#### Algae

Chemical name	e Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8		Scenedemus subspicatus	EC <sub>50</sub>	0.6 mg/L	ECHA

# Aquatic Chronic Toxicity Test data reported below.

#### Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glutaraldehyde (<0.1%) CAS#: 111-30-8	None reported	Scenedemus subspicatus	NOEC	< 0.0391 mg/L	ECHA

Not applicable

Not applicable

#### Persistence and degradability

Mixture No data available.

**Bioaccumulation** There is no data for this product Mixture No data available.

# **Partition coefficient**

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient

#### 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	Not applicable

**Special instructions for disposal** If permitted by regulation. Open cold water tap completely, slowly pour the material to the drain. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
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

Complies
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**

#### <u>SARA 313</u>

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

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **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
Glutaraldehyde	Х	X	Х
111-30-8			

#### **U.S. EPA Label Information**

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

Special Comments
None

Additional information

Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds

Glutaraldehyde	Declarable Substance (LR)	0.1 %
111-30-8	Prohibited Substance (LR)	

# **NFPA and HMIS Classifications**

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection - X
				-

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

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA		ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) CDC (Center for Disease Control) CEPA (Canadian Environmental Protection Agency) CICAD (Concise International Chemical Assessment Documents) ECHA (The European Chemicals Agency) EEA (European Environment Agency) EPA (Environmental Protection 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>™</sup> FDA (Food & Drug Administration)		
GESTIS				s Substances of the German Social Accident
HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		Immediately Dangerous OSHA (Occupational Sa PEEN (Pan European Eo RTECS (Registry of Toxi SIDS (Screening Informa The Finnish Environmen USDA (United States De USDC (United States De WHO (World Health Org	dustrial Environmen onal Programme on al Uniform Chemical of Technology and E of Health) e for Occupational S iternational Chemica rial Chemicals Notifi to Life or Health fety and Health Adm cological Network) ic Effects of Chemic ation Dataset) for High t Institute (SYKE) partment of Agricult partment of Comme anization)	Chemical Safety) Information Database) Evaluation (NITE) Safety and Health) al Regulatory Database) ication and Assessment Scheme (NICNAS) ninistration of the US Department of Labor) al Substances) gh Volume Chemicals
-		ONTROLS/PERSONAL P		
TWA	TWA (time-weighte	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.

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SKN*	Skin designation	SKN+	Skin sensitization
RSP+	Respiratory sensitization	**	Hazard Designation
С	Carcinogen	R	Reproductive toxicant
Μ	mutagen		

Prepared By	Hach Product Compliance Department
Issue Date	10-Oct-2019
Revision Date	26-Jan-2024
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