

SAFETY DATA SHEET

Issue Date 30-Nov-2020	Revision Date 26-Jan-2024	Version 6.2	Page	1 / 13
	1. IDENTIFICA	ΓΙΟΝ		
Product identifier Product Name	NitriVer [®] 2 Nitrite Reagent			
Other means of identification Product Code(s)	221969			
Safety data sheet number	M00031			
Recommended use of the che Recommended Use		ny roagont		
Uses advised against	Determination of nitrite. Laborato None.	ry reagent.		
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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word Danger

Product Name NitriVer® 2 Nitrite Reagent Revision Date 26-Jan-2024 Page 2 / 13



Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H332 - Harmful if inhaled

Precautionary statements

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

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

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

None

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 #
Sulfuric acid, iron(2+) salt (2:1), compound with 1,2-ethanediamine (1:1)	63589-59-3	60 - 70%	-
Potassium pyrosulfate	7790-62-7	30 - 40%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.
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.
EN / AGHS	Page 2/13

Product Code(s) 221969 Issue Date 30-Nov-2020 Version 6.2	Product Name NitriVer [®] 2 Nitrite Reagent Revision Date 26-Jan-2024 Page 3 / 13		
	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	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.		
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medica	I 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	Nitrogen oxides. Sulfur oxides. Carbon monoxide. Carbon dioxide (CO2).		
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 ec	uipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust.		
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 containm	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
[

Product Code(s) 221969 Issue Date 30-Nov-2020 Version 6.2	Product Name NitriVer [®] 2 Nitrite Reagent Revision Date 26-Jan-2024 Page 4 / 13			
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. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Ensure adequate ventilation.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.			
Flammability class	Not applicable			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sulfuric acid, iron(2+) salt (2:1), compound with 1,2-ethanediamine (1:1)	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m ³	TWA: 1 mg/m³ Fe
CAS#: 63589-59-3			

Appropriate engineering controls

Engineering Controls	Showers
	Everyeeh

Eyewash stations Ventilation systems.

Individual protection measures, such	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves. Impervious gloves.
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Avoid contact with eyes, skin and clothing.
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. Avoid breathing dust/fume/gas/mist/vapors/spray.
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

Property.ValuesRemarks • MethodMolecular weightNo data availablepH1.35% @ 20°CMelting point / freezing point156 °C / 312.8 °FInitial boiling point and boiling rangeNo data availableEvaporation rateNot applicableVapor pressureNot applicableRelative vapor density2.06Partition coefficientlog Kow ~ 0No data availableNo data availablePartition coefficientNo data availableDecomposition temperatureNo data availableDuramic viscosityNot applicableKinematic viscosityNot applicable	Physical state Appearance Odor	powder None	Solid		Color Odor threshold	light green No data ava	ilable
pH1.35% @ 20°CMelting point / freezing point156 °C / 312.8 °FInitial boiling point and boiling rangeNo data availableEvaporation rateNot applicableVapor pressureNot applicableRelative vapor densityNo data availableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Autoignition temperaturelog Koc ~ 0Decomposition temperatureNo data availableDecomposition temperatureNot applicableDynamic viscosityNot applicable	Property_			<u>Values</u>			Remarks • Method
Melting point / freezing point156 °C / 312.8 °FInitial boiling point and boiling rangeNo data availableEvaporation rateNot applicableVapor pressureNot applicableRelative vapor densityNo data availableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Kow ~ 0No data availableNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Molecular weight	t		No data availa	ble		
Initial boiling point and boiling rangeNo data availableEvaporation rateNot applicableVapor pressureNot applicableRelative vapor densityNo data availableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Koc ~ 0No data availableNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	рН			1.3			5% @ 20°C
Evaporation rateNot applicableVapor pressureNot applicableRelative vapor densityNot applicableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Koc ~ 0Not data availableNot data availableDecomposition temperatureNot data availableDynamic viscosityNot applicable	Melting point / fro	eezing point		156 °C / 31	2.8 °F		
Vapor pressureNot applicableRelative vapor densityNo data availableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficient Autoignition temperatureNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Initial boiling poi	nt and boiling rang	je	No data availa	ble		
Relative vapor densityNo data availableSpecific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Koc ~ 0No data availableNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Evaporation rate			Not applicable			
Specific gravity - VALUE 12.06Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Koc ~ 0No data availableNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Vapor pressure			Not applicable			
Partition coefficientlog Kow ~ 0Soil Organic Carbon-Water Partition Coefficientlog Koc ~ 0Autoignition temperatureNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Relative vapor de	ensity		No data availa	able		
Soil Organic Carbon-Water Partition Coefficient Autoignition temperaturelog Koc ~ 0Decomposition temperatureNo data availableDynamic viscosityNot applicable	Specific gravity -	VALUE 1		2.06			
CoefficientNo data availableAutoignition temperatureNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable	Partition coefficie	ent		log K _{ow} ~ 0			
Autoignition temperatureNo data availableDecomposition temperatureNo data availableDynamic viscosityNot applicable		bon-Water Partitio	n	log K _{oc} ~ 0			
Dynamic viscosity Not applicable		perature		No data availa	ble		
	Decomposition to	emperature		No data availa	ble		
Kinematic viscosity Not applicable	Dynamic viscosi	ty		Not applicable			
	Kinematic viscos	sity		Not applicable			

Solubility(ies)

Water solubility

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

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	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 Not applicable

Product Name NitriVer® 2 Nitrite Reagent Revision Date 26-Jan-2024 **Page** 6/13

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sulfuric acid, iron(2+) salt (2:1), compound with 1,2-ethanediamine (1:1)	63589-59-3	No data available	-
Potassium pyrosulfate	7790-62-7	No data available	-

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

Excessive heat.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Product Code(s) 221969 Issue Date 30-Nov-2020 Version 6.2	Product Name NitriVer [®] 2 Nitrite Reagent Revision Date 26-Jan-2024 Page 7 / 13
Inhalation	May cause irritation of respiratory tract. Harmful by inhalation.
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. Harmful if swallowed.
Symptoms	Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Acute toxicity

Harmful if swallowed Harmful if inhaled

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
Sulfuric acid, iron(2+) salt (2:1), compound with 1,2-ethanediamine (1:1) (60 - 70%) CAS#: 63589-59-3		> 5454.3160252 mg/kg	None reported	None reported	Vendor SDS

Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium pyrosulfate (30 - 40%) CAS#: 7790-62-7	Rat LC ₅₀	0.375 mg/L	4 hours	Upper Respiratory Tract lesions	ECHA

Unknown Acute Toxicity

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

Acute Toxicity Estimations (ATE)

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

ATEmix (oral)	757.60 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	1.474 mg/l
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

Product NameNitriVer® 2 Nitrite ReagentRevision Date26-Jan-2024Page8 / 13

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
Potassium pyrosulfate (30 - 40%) CAS#: 7790-62-7	None reported	None reported	None reported	None reported	Corrosive to skin	Vendor SDS

Serious eye damage/irritation

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

Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium pyrosulfate (30 - 40%) CAS#: 7790-62-7	None reported	None reported	None reported	None reported	Corrosive to eyes	Vendor SDS

Respiratory or skin sensitization

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

Mixture

No data available.

Ingredient Sensitization Data

No data available.

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
Sulfuric acid, iron(2+) salt	63589-59-3	-	-	-	-
(2:1), compound with					
1,2-ethanediamine (1:1)					
Potassium pyrosulfate	7790-62-7	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

Germ cell mutagenicity

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

Mixture invitro **Data** No data available.

Substance invitro Data No data available.

Mixture invivo **Data** No data available.

Substance invivo Data No data available.

Reproductive toxicity

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

Mixture

No data available.

Ingredient Reproductive Toxicity Data

No data available.

Aspiration hazard

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	Based on available data, the classification criteria are not met.
Unknown aquatic toxicity	0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.
<u>Mixture</u>	
Aquatic Acute Toxicity No data available.	
Aquatic Chronic Toxicity No data available.	
Substance	
Aquatic Acute Toxicity Test data reported below.	

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium pyrosulfate (30 - 40%) CAS#: 7790-62-7	96 hours	Oncorhynchus mykiss	LC ₅₀	420 mg/L	ERMA

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium pyrosulfate (30 - 40%) CAS#: 7790-62-7	48 Hours	Daphnia magna	EC50	140 mg/L	ERMA

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Mixture No data available.

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE Mixture No data available.

log Kow ~ 0 **Partition coefficient** Mobility Soil Organic Carbon-Water Partition Coefficient log Koc ~ 0

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
US EPA Waste Number	D002	
Special instructions for disposal	Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain.	
14. TRANSPORT INFORMATION		
DOT	Not regulated	

Product NameNitriVer® 2 Nitrite ReagentRevision Date26-Jan-2024Page11 / 13

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	Does not comply
NZIOC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA	311/312	Hazard	Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

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

CERCLA

Product Name NitriVer® 2 Nitrite Reagent Revision Date 26-Jan-2024 Page 12 / 13

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
Sulfuric acid, iron(2+) salt (2:1),	-	-	Х
compound with			
1,2-ethanediamine (1:1)			
63589-59-3			

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) Not applicable NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection -
			-	X
				- 1

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

ican Conference of Governmental Industrial Hygienists)
ncy for Toxic Substances and Disease Registry)
nical Carcinogenesis Research Information System)
for Disease Control)
dian Environmental Protection Agency)
ise International Chemical Assessment Documents)
uropean Chemicals Agency)
an Environment Agency)
mental Protection Agency)
Zealands Environmental Risk Management Authority)
ough ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
Drug Administration)
ormation System on Hazardous Substances of the German Social Accident
•
dous Substances Data Bank)
National Industrial Environment and Risks Institute)
I (International Programme on Chemical Safety)
International Uniform Chemical Information Database)
al Institute of Technology and Evaluation (NITE)

Product Code(s) 221969	
Issue Date 30-Nov-2020	
Version 6.2	

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)
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.
SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen		SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance Department		
Issue Date 30-Nov-2020				
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.

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©2023

End of Safety Data Sheet