

# SAFETY DATA SHEET

Issue Date 01-Apr-2021

Revision Date 28-Feb-2025

Version 4.2

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# 1. IDENTIFICATION

Product identifier

**Product Name** 

Formaldehyde 1 Reagent

Other means of identification

Product Code(s)

2182999

Safety data sheet number

M00002

Recommended use of the chemical and restrictions on use

Recommended Use

Laboratory reagent.

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

May be harmful if swallowed

May be harmful in contact with skin

May be harmful if inhaled

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Harmful to aquatic life

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name Chemical Family Sodium sulfite Inorganic salt.

Formula

Na<sub>2</sub>SO<sub>3</sub>

Percent ranges are used where confidential product information is applicable.

Sodium sulfite	7757-83-7	<b>Range</b> 100%	_
Chemical name	CAS No.	Percent	HMRIC#

# 4. FIRST AID MEASURES

# **Description of first aid measures**

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. If symptoms persist, call a physician.

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

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

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 effects, both acute and delayed

**Symptoms** 

Coughing and/ or wheezing. Difficulty in breathing.

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

This material will not burn.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

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# 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. Avoid generation of dust. Do not breathe dust. Use personal

protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

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 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 breathing

dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Ensure adequate ventilation. Do

not eat, drink or smoke when using this product.

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.

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, such as personal protective equipment

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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.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

No special protective equipment required.

**General Hygiene Considerations** 

Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using

this product.

**Environmental exposure controls** 

Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards

None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

Solid

**Appearance** 

crystalline

Color

white

Odor

None

**Odor threshold** 

No data available

<u>Property</u>

<u>Values</u>

Remarks • Method

Molecular weight

126.04 g/mole

рΗ

7

Melting point / freezing point

884 °C / 1623.2 °F

Initial boiling point and boiling range

1429 °C / 2604.2 °F

Evaporation rate

Not applicable

Vapor pressure

Not applicable

Relative vapor density

No data available

Specific gravity - VALUE 1

2.6

Partition coefficient

log K₀w ~ 0

Soil Organic Carbon-Water Partition

log K<sub>00</sub> ~ 0

Coefficient

No data available

Autoignition temperature

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
Completely soluble	47600 mg/L	0 °C / 32 °F
Completely soluble	427000 mg/L	81 °C / 177.8 °F

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# Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Glycerol	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Insoluble	< 0.1 mg/L	25 °C / 77 °F

## Other information

Corrosive to metals

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable Not applicable

Volatile Organic Compounds (VOC) Content

This Product is by Weight 100% an Individual Pure Chemical Substance

# **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.

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Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products

Sulfur oxides. Sodium monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

# **Product Information**

Inhalation

May be harmful by inhalation.

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** 

Coughing and/ or wheezing.

**Acute toxicity** 

Based on available data, the classification criteria are not met

Mixture

If available, see ingredient data below.

# **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
Sodium sulfite (100%) CAS#: 7757-83-7	Rat LD50	3560 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
Sodium sulfite (100%) CAS#: 7757-83-7	Rat LD50	2000 mg/kg	None reported	None reported	EPA

## Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	Rat LC₅₀	5.5 mg/L	4 hours	None reported	ECHA

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# Inhalation (Vapor) Exposure Route

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**Unknown Acute Toxicity** 

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

# **Acute Toxicity Estimations (ATE)**

Not applicable

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**

If available, see ingredient data below.

## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA

# Serious eye damage/irritation

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

### Mixture

If available, see ingredient data below.

## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	Standard Draize Test	Rabbit	162 mg	None reported	Mild eye irritant	ECHA

# Respiratory or skin sensitization

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

### **Mixture**

If available, see ingredient data below.

# Ingredient Sensitization Data

Test data reported below.

# **Respiratory Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and
		-		sources for data
Sodium sulfite	Based on human	Human	Confirmed to be a respiratory	OECD 429: Skin Sensitization: Local

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i	(100%) CAS#: 7757-83-7	experience	sensitizer	Lymph Node Assay

STOT - single exposure

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

### **Mixture**

If available, see ingredient data below.

# 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

If available, see ingredient data below.

# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

# Carcinogenicity

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

#### Mixture

If available, see ingredient data below.

# **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sodium sulfite	7757-83-7		Group 3		-

# **Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
ARC (International Agency for Research on Cancer)	Group 3 - Not Classifiable as to
	Carcinogenicity in Humans
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

If available, see ingredient data below.

# Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	Cytogenetic analysis	Mouse sperm cells	25 mg/L	None reported	Positive test result for mutagenicity	

# Mixture invivo Data

If available, see ingredient data below.

# Substance invivo Data

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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.

**Mixture** 

**Aquatic Acute Toxicity** 

If available, see ingredient data below.

**Aquatic Chronic Toxicity** 

If available, see ingredient data below.

## **Substance**

**Aquatic Acute Toxicity** 

Test data reported below.

# Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	96 hours	Leuciscus idus	LC50	170 mg/L	OECD 429: Skin Sensitization: Local Lymph Node Assay

# Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfite (100%) CAS#: 7757-83-7	48 Hours	Daphnia magna	EC50	18 mg/L	OECD 429: Skin Sensitization: Local Lymph Node Assay

# Algae

	Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
-	Sodium sulfite (100%) CAS#: 7757-83-7	None reported	Chlamydomonas reinhardtii	EC50	63 mg/L	OECD 429: Skin Sensitization: Local Lymph Node Assay

### **Aquatic Chronic Toxicity**

No data available.

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# Persistence and degradability

Mixture

No data available.

**Bioaccumulation** 

There is no data for this product

**Mixture** 

No data available.

Partition coefficient

log Kow ~ 0

Mobility

Soil Organic Carbon-Water Partition Coefficient

log K∞ ~ 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.

Special instructions for disposal

Work in an approved fume hood. Working in a large container, cautiously add small portions of the material to cold water with agitation. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system. 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

<u>IATA</u>

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**

For Inventory status, "complies" means, listed on the inventory, exempted or otherwise complies.

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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

Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies KECI Complies **PICCS** Complies TCSI Complies **AICS** Complies **NZIoC** 

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

IKA 311/312 Hazara Outegories	
Acute health hazard	Yes
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

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

This product does not contain any substances regulated by state right-to-know regulations.

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

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Chemical name	FIFRA	FDA
Sodium sulfite	180.0910	21 CFR 182.3798

# 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
Sodium sulfite	Declarable Substance (LR)	None reported
7757-83-7	Prohibited Substance (LR)	Hono reported

### NFPA and HMIS Classifications

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 2	Flammability - 0	Physical hazards - 0	Personal protection -
				x
				-1

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

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 CICAD (Concise International Chemical Assessment Documents)

ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA Environmental Protection Agency

ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

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 (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 (List of Lists - An International Chemical Regulatory Database)

NDF no dat

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA Occupational Safety and Health Administration of the US Department of Labor

PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)

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USDA USDC USDA (United States Department of Agriculture)
USDC (United States Department of Commerce)

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+ Skin designation

SKN+

Skin sensitization

C

Respiratory sensitization Carcinogen

R

Hazard Designation Reproductive toxicant

M

mutagen

matago

Hach Product Compliance Department

**Issue Date** 

Prepared By

01-Apr-2021

**Revision Date** 

28-Feb-2025

**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 ©2025** 

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

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# 1. IDENTIFICATION

**Product identifier** 

Product Name Thymolphthalein Indicator Solution 1 g/l

Other means of identification

Product Code(s) 2185336

Safety data sheet number M01105

UN/ID no UN1219

Recommended use of the chemical and restrictions on use

**Recommended Use** Indicator for pH. 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Chronic aquatic toxicity	Category 3

### Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

# Signal word

Danger

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**Product Name** Thymolphthalein Indicator Solution 1 g/l **Revision Date** 26-Jan-2024

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#### **Hazard statements**

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical attention

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

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

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

P312 - Call a POISON CENTER or doctor if you feel unwell

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P273 - Avoid release to the environment

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

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

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

# Other Hazards Known

Causes mild skin irritation Harmful to aquatic life

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

#### **Mixture**

Chemical Family

Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Isopropyl alcohol	67-63-0	40 - 50%	-

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i nymoiphthaiein   125-20-2   <1%   -
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# 4. FIRST AID MEASURES

**Description of first aid measures** 

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

**Eye contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or

clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Carbon monoxide, Carbon dioxide.

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

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**Personal precautions** 

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental precautions** 

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers. 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

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. In case of insufficient ventilation, wear suitable respiratory equipment.

# Conditions for safe storage, including any incompatibilities

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

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with particular national and

local regulations.

Flammability class Class IB

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
CAS#: 67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	-

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

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.

**Hand Protection** 

Wear suitable gloves. Impervious 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

Tight sealing safety goggles.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots. Avoid contact with eyes, skin and clothing.

**General Hygiene Considerations** 

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**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.

into any dewor, on the ground of into any body

Thermal hazards

None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

Odor

Liquid

Appearance

aqueous solution Alcoholic Color colorless

Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

**pH** 5.3

@ 20 °C

Melting point / freezing point

-21 °C / -5.8 °F

Initial boiling point and boiling range

79 °C / 174.2 °F

**Evaporation rate** 

8.09 (water = 1)

Vapor pressure

19.427 mm Hg / 2.59 kPa at 25 °C / 77 °F

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Relative vapor density 0.89

Specific gravity - VALUE 1 0.915

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity No data available

Kinematic viscosity

No data available

Solubility(ies)

## Water solubility

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

# Solubility in other solvents

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

## Other information

# **Metal Corrosivity**

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

# **Volatile Organic Compounds (VOC) Content**

See ingredients information below

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Isopropyl alcohol	67-63-0	100%	Χ
Thymolphthalein	125-20-2	No data available	-

## **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point 21 °C / 69.8 °F Method CC (closed cup)

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

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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 Yes.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous polymerization**

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases. gum.

## Hazardous decomposition products

Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Causes serious eye irritation. May cause redness, itching, and pain.

**Skin contact** May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

### **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	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Isopropyl alcohol	Rat	4710 mg/kg	None reported	Behavioral	OECD 429: Skin Sensitization:

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(40 - 50%) CAS#: 67-63-0	LD <sub>50</sub>			General anesthetic	Local Lymph Node Assay
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	Rabbit LD <sub>50</sub>	4059 mg/kg	None reported	None reported	LOLI
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Isopropyl alcohol	Rat LC <sub>50</sub>	72.6 mg/L	4 hours	Behavioral General anesthetic	RTECS

# **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)	No information available 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**

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
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	Standard Draize Test	Rabbit	500 mg	None reported	Mild skin irritant	RTECS
Thymolphthalein (<1%) CAS#: 125-20-2	QSAR (Quantitative Structure Activity Relationship Models)	None reported	None reported	None reported	Not corrosive or irritating to skin	Toxtree (Ideaconsult, Ltd)

## Serious eye damage/irritation

Classification based on data available for ingredients. Irritating 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
Ī	Isopropyl alcohol	Standard Draize	Rabbit	100 mg	None reported	Corrosive to eyes	RTECS

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(40 - 50%) CAS#: 67-63-0	Test					
Thymolphthalein (<1%) CAS#: 125-20-2	QSAR (Quantitative Structure Activity Relationship Models)	None reported	None reported	None reported	Not corrosive or irritating to eyes	Toxtree (Ideaconsult, Ltd)

# 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
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	None reported	Guinea pig	Not confirmed to be a skin sensitizer	OECD 429: Skin Sensitization: Local Lymph Node Assay

# STOT - single exposure

May cause drowsiness or dizziness.

### **Mixture**

No data available.

# Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Isopropyl alcohol	Human	223 mg/kg	None reported	Behavioral	RTECS
(40 - 50%)	TDLo			Hallucinations, Distorted	
CAS#: 67-63-0				perceptions	
				Cardiac	
				Pulse rate decrease with fall in	
				BP	
				Vascular	
				BP lowering not characterized in	
				autonomic section	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Isopropyl alcohol	Human	35 mg/L	4 hours	Cardiac	RTECS
(40 - 50%)	TCLo			Pulse rate decrease with fall in	
CAS#: 67-63-0				BP	
				Lungs, Thorax, or	
				Respiration	
				Other changes	

# **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**

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No data available.

# **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol	67-63-0	-	Group 3	-	Χ
Thymolphthalein	125-20-2	-	-	-	-

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 3 - Not classifiable as a human
	carcinogen
NTP (National Toxicology Program)	Does not apply
OSHA	X - Present

# **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.

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	Cytogenetic analysis	Rat	0.00103 mg/L	16 weeks	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 type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	Rat TD∟₀	32.4 mg/kg	None reported	Effects on Embryo or Fetus Fetal death	RTECS
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data

# **Aspiration hazard**

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

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# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** 0% 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
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	96 hours	Pimephales promelas	LC <sub>50</sub>	4200 mg/L	IUCLID
Thymolphthalein (<1%) CAS#: 125-20-2	None reported	None reported	LC50	0.022 mg/L	ECOSARS
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	48 Hours	None reported	LC50	1400 mg/L	IUCLID
Thymolphthalein (<1%) CAS#: 125-20-2	None reported	None reported	EC50	0.023 mg/L	ECOSARS
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Isopropyl alcohol (40 - 50%) CAS#: 67-63-0	72 Hours	Scenedesmus subspicatus	EC50	> 1000 mg/L	IUCLID
Thymolphthalein (<1%) CAS#: 125-20-2	None reported	None reported	EC50	0.175 mg/L	ECOSARS

**Aquatic Chronic Toxicity** 

No data available.

## Persistence and degradability

**Mixture** 

No data available.

Bioaccumulation

MATERIAL DOES NOT BIOACCUMULATE

**Mixture** 

No data available.

Partition coefficient Not applicable

**Mobility** 

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**Soil Organic Carbon-Water Partition Coefficient** 

Not applicable

Other adverse effects
No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local

regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld

containers.

US EPA Waste Number D001

Special instructions for disposal Incinerate material at an E.P.A. approved hazardous waste facility.

# 14. TRANSPORT INFORMATION

DOT

UN/ID no UN1219

Proper shipping name Isopropanol solution

Transport hazard class(es) 3
Packing Group | | |
Emergency Response Guide 129

Number

**TDG** 

UN/ID no UN1219

Proper shipping name Isopropanol solution

Transport hazard class(es) 3
Packing Group

**IATA** 

UN number or ID number UN1219

Proper shipping name Isopropanol solution

Transport hazard class(es) 3
Packing group II
ERG Code 3L
Special Provisions A180

<u>IMDG</u>

**UN number or ID number** UN1219

Proper shipping name Isopropanol solution

Transport hazard class(es) 3
Packing Group II
EmS-No F-E, S-D

**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.

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# 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 Does not comply **ENCS IECSC** Complies Complies **KECL PICCS** Complies Complies **TCSI** Complies **AICS** Complies **NZIoC** 

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 contains a chemical or 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 %	
Isopropyl alcohol (CAS #: 67-63-0)	1.0	

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
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)

#### <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

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol	X	X	X
67-63-0			

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

Chemical name	FIFRA	FDA
Isopropyl alcohol	180.0950	-

# 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 - 2	Flammability - 3	Instability - 0	Physical and chemical
				properties -
HMIS	Health hazards - 2	Flammability - 3	Physical hazards - 0	Personal protection -
		-	-	X
				- I

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

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

CEPA (Canadian Environmental Protection Agency) **CEPA** 

CICAD CICAD (Concise International Chemical Assessment Documents)

**ECHA** ECHA (The European Chemicals Agency) EEA (European Environment Agency) EEA EPA (Environmental Protection Agency) **EPA** 

**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 (Information System on Hazardous Substances of the German Social Accident **GESTIS** 

Insurance)

**HSDB** HSDB (Hazardous Substances Data Bank)

**INERIS** INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) **IPCS INCHEM** IUCLID (The International Uniform Chemical Information Database) **IUCLID** Japan National Institute of Technology and Evaluation (NITE) NITE

NIH (National Institutes of Health) NIH

NIOSH NIOSH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) LOLI

**NDF** 

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) **NICNAS** 

NIOSH IDLH Immediately Dangerous to Life or Health

**OSHA** OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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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 (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

X 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 SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 09-Nov-2021

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** 

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# SAFETY DATA SHEET

**Issue Date** 27-Jan-2021 **Revision Date** 26-Jan-2024 **Version** 4.7 **Page** 1 / 12

# 1. IDENTIFICATION

**Product identifier** 

Product Name Demineralizer Resin Bottle

Other means of identification

Product Code(s) 1429900

Safety data sheet number M00283

Recommended use of the chemical and restrictions on use

**Recommended Use** Water Treatment Deionization.

Uses advised against Consumer use.

**Restrictions on use** For Laboratory Use Only.

# Details of the supplier of the safety data sheet

### **Manufacturer Address**

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

## Emergency telephone number

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

# 2. HAZARDS IDENTIFICATION

### Classification

# **Regulatory Status**

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

Serious eye damage/eye irritation

Category 1

# Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

## Signal word

Danger



### **Hazard statements**

H318 - Causes serious eye damage

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Product Name Demineralizer Resin Bottle

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**Precautionary statements** 

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

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** 

Chemical Family Mixture.

Chemical nature aqueous solution.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide	69011-18-3	30 - 40%	1
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene. sulfonated	69011-20-7	30 - 40%	-

# 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 effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

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## 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 styrene. divinylbenzene. Carbon monoxide, Carbon dioxide.

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**Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**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. Soak up with inert

absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**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.

Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children.

Flammability class Not applicable

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# 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

Siloweis

Eyewash stations Ventilation systems.

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.

**Hand Protection** Wear suitable gloves.

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective 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.

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 Solid Liquid

AppearanceBeadsColorGold and dark blue

aqueous solution

Odor Amine Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

**pH** ~ 7

Melting point / freezing point  $0 \, ^{\circ}\text{C} \, / \, 32 \, ^{\circ}\text{F}$ 

Initial boiling point and boiling range  $\sim$  71 °C / 159.8 °F

Evaporation rate Not applicable

Vapor pressure Not applicable at 20 °C / 68 °F

Relative vapor density 0.62

Specific gravity - VALUE 1 1.2

Partition coefficient Not applicable

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**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature > 500 °C / 932 °F

**Decomposition temperature**No information available

Dynamic viscosityNot applicableKinematic viscosityNot applicable

Solubility(ies)

## Water solubility

Water solubility classification	Water solubility_	Water Solubility Temperature_
Insoluble	< 0.1 mg/L	25 °C / 77 °F

## Solubility in other solvents

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

## Other information

# **Metal Corrosivity**

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

## **Volatile Organic Compounds (VOC) Content**

Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide	69011-18-3	No data available	-
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	69011-20-7	No data available	-

# **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density Not applicable

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# 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

divinylbenzene. styrene. Carbon monoxide. Carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

# **Product Information**

**Inhalation** No known effect based on information supplied.

Eye contact Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause

irreversible damage to eyes.

**Skin contact** May cause irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms** Redness. Burning. May cause blindness.

### **Acute toxicity**

Based on available data, the classification criteria are not met

### **Mixture**

No data available.

### **Ingredient Acute Toxicity Data**

No data available.

### **Unknown Acute Toxicity**

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

### **Acute Toxicity Estimations (ATE)**

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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.

## 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.

### 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	
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Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternize d, hydroxide	69011-18-3	-	-	-	-
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	69011-20-7	-	-	-	-

# **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.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

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### **Substance**

Aquatic Acute Toxicity
No data available.

**Aquatic Chronic Toxicity** 

No data available.

## Persistence and degradability

**Mixture** 

No data available.

**Mixture** 

No data available.

Partition coefficient Not applicable

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient Not applicable

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. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

# 14. TRANSPORT INFORMATION

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDGNot regulated

### **Additional information**

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

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

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

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

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# 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** Does not comply **ENCS** Does not comply **IECSC** Complies Complies **KECL PICCS** Complies Complies **TCSI** Complies **AICS** Complies **NZIoC** 

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 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

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

#### **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 - 1	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 1	Physical hazards - 0	Personal protection -
		-	_	X
				- I

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

ACGIH (American Conference of Governmental Industrial Hygienists)

ATSDR ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

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 (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 (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 (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 (Occupational Safety and Health Administration of the US Department of Labor)

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 (World Health Organization)

# Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X 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 SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 27-Jan-2021

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.

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**End of Safety Data Sheet** 

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