

# SAFETY DATA SHEET

**Issue Date** 16-Jun-2021 **Revision Date** 26-Jan-2024 **Version** 5.8 **Page** 1 / 14

# 1. IDENTIFICATION

**Product identifier** 

Product Name Sulfate Reagent A

Other means of identification

Product Code(s) TNT864A

Safety data sheet number M00217

UN/ID no UN3316

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory Use. 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)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Chronic aquatic toxicity	Category 3

#### Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

## Signal word

Danger

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#### **Hazard statements**

H301 - Toxic if swallowed

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary statements**

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P405 - Store locked up

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

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

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

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

P273 - Avoid release to the environment

#### Other Hazards Known

Harmful to aquatic life

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name Barium chloride, dihydrate

Chemical FamilyInorganic salt.FormulaBaCl₂ • 2H₂OCAS No10326-27-9

Alternate CAS Number 10361-37-2 - Anhydrous Chemical nature Inorganic Compound.

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

Chemical name	CAS No	Percent Range	HMRIC #
Barium chloride (BaCl2), dihydrate	10326-27-9	100%	-

# 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 breathing has stopped, give artificial respiration. Get medical

attention immediately. If symptoms persist, call a physician.

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

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

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persists.

**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 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 effects, both acute and delayed

**Symptoms** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

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.

## 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.

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** 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.

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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. 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.

Flammability class Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Barium chloride (BaCl2), dihydrate	TWA: 0.5 mg/m³ Ba	TWA: 0.5 mg/m <sup>3</sup>	IDLH: 50 mg/m³ Ba
CAS#: 10326-27-9		(vacated) TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> except
			Barium sulfate Ba

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.

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**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. 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

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# Information on basic physical and chemical properties

Physical state

Solid

Appearance Odor crystalline Odorless **Color** white

Odor threshold Not applicable

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

Molecular weight 244.26 g/mole

**pH** 5.2 - 8.2 50 g/L

Melting point / freezing point 963 °C / 1765.4 °F

Initial boiling point and boiling range 1560 °C / 2840 °F

Evaporation rate Not applicable

Vapor pressure Not applicable

Relative vapor density No data available

Specific gravity - VALUE 1 3.100

Partition coefficient No data available

**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

Autoignition temperature No data available

**Decomposition temperature** 100 °C / 212 °F

Dynamic viscosity

Not applicable

Kinematic viscosity

Not applicable

Solubility(ies)

# Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	> 375000 mg/L	20 °C / 68 °F

# Solubility in other solvents

Chemical Name_	nical Name Solubility classification Solubility		Solubility Temperature_
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Methanol	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

### **Metal Corrosivity**

Steel Corrosion RateNot applicableAluminum Corrosion RateNot applicable

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

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

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Barium chloride (BaCl2), dihydrate	10326-27-9	Not applicable	-

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**Explosive properties** 

Upper explosion limitNot applicableLower explosion limitNot applicable

Flammable properties

Flash point No data available

Flammability Limit in Air

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

Oxidizing properties No data available.

Bulk density 1350 kg/m<sup>3</sup>

# 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**

Hazardous polymerization does not occur.

### Conditions to avoid

Excessive heat.

### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

# Hazardous decomposition products

Chlorides. Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

### **Product Information**

**Inhalation** May cause irritation of respiratory tract. Harmful by inhalation.

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

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

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

swallowed.

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Acute toxicity** 

Toxic if swallowed Harmful if inhaled

**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
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Rat LD <sub>50</sub>	118 mg/kg	None reported	None reported	IUCLID

### Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Rat LC <sub>50</sub>	>= 1.1 mg/L	4 hours	None reported	ECHA

### **Unknown Acute Toxicity**

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

# **Acute Toxicity Estimations (ATE)**

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
Barium chloride (BaCl2), dihydrate	EpiDerm Skin Model (Directive	Human	10 mg	42 hours	Not corrosive or irritating to skin	ECHA

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(100%)	2000/33/EC, B.27)			
CAS#: 10326-27-9				

### Serious eye damage/irritation

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

#### **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
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Standard Draize Test	Rabbit	100 mg	72 hours	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.

# **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Local Lymph Node Assay	Mouse	Not confirmed to be a skin sensitizer	ECHA

# 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

Test data reported below.

### **Oral Exposure Route**

С	Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
(B	Barium chloride BaCl2), dihydrate (100%) AS#: 10326-27-9	Rat LD∟₀	300 mg/kg	None reported	None reported	RTECS

### STOT - repeated exposure

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

#### **Mixture**

If available, see ingredient data below.

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# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Barium chloride	Rat	91 mg/kg	182 days	Behavioral	RTECS
(BaCl2), dihydrate	$TD_Lo$		_	Alteration of classical	
(100%)				conditioning	
CAS#: 10326-27-9				Blood	
				Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(multiple enzyme effects)	

### **Carcinogenicity**

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

#### Mixture

If available, see ingredient data below.

# **Ingredient Carcinogenicity Data**

Test data reported below.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Barium chloride (BaCl2),	10326-27-9	-	-	-	-
dihydrate					

# **Legend**

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

# **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Rat NOAEL	91 mg/kg	2 years	Not Carcinogenic	ECHA

# **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
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	Gene conversion and mitotic recombination	Saccharomyces cerevisiae	14 mmol/L	None reported	Positive test result for mutagenicity	RTECS

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Mixture invivo Data

If available, see ingredient data below.

Substance invivo Data

No data available.

Reproductive toxicity

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

**Mixture** 

No data available.

**Ingredient Reproductive Toxicity Data** 

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Barium chloride	Rat	84 mg/kg	24 weeks	Paternal Effects	RTECS
(BaCl2), dihydrate	TDLo			Spermatogenesis (including	
(100%)				genetic material, sperm	
CAS#: 10326-27-9				morphology, motility, and count)	

### **Aspiration hazard**

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

# 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** 

If available, see ingredient data below.

**Aquatic Chronic Toxicity** 

If available, see ingredient data below.

**Substance** 

**Aquatic Acute Toxicity** 

Test data reported below.

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Barium chloride (BaCl2), dihydrate (100%) CAS#: 10326-27-9	48 Hours	Daphnia magna	EC <sub>50</sub>	14.5 mg/L	Vendor SDS

# **Aquatic Chronic Toxicity**

No data available.

### Persistence and degradability

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Mixture

No data available.

**Mixture** 

No data available.

Partition coefficient No data available

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient No data available

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 Dispose of material in an E.P.A. approved hazardous waste facility.

# 14. TRANSPORT INFORMATION

DOT

UN/ID no UN3316

Proper shipping name CHEMICAL KITS

Transport hazard class(es) 9
Packing Group || Emergency Response Guide 171

Number

TDG

UN/ID no UN3316
Proper shipping name CHEMICAL KIT

Transport hazard class(es) 9
Packing Group

IATA

UN number or ID number UN3316
Proper shipping name UN3316
Chemical kit

Transport hazard class(es)

Packing group

ERG Code

Special Provisions

9

U

A3, A82

**IMDG** 

UN number or ID number UN3316
Proper shipping name UN3316
CHEMICAL KIT

Transport hazard class(es) 9
Packing Group | |

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**EmS-No** F-A, S-P **Special Provisions** 251, 340

#### Additional information

This product forms part of a kit. Information in this section relates to the kit as a whole.

#### 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 Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies Complies TCSI Complies **AICS 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 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 %
Barium chloride (BaCl2), dihydrate (CAS #: 10326-27-9)	1.0

#### 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

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### **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Barium chloride (BaCl2),	X	-	X
dihydrate			
10326-27-9			

#### **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
				- I

### 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 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 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

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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 (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)

# <u>Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

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

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KDU01-20-01 08.06.2027

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Revision Note None

#### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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

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**End of Safety Data Sheet** 

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