

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifier**

**Product Description:** Sodium orthosilicate  
**Cat No. :** 17568  
**CAS No** 13472-30-5  
**Molecular Formula** Na<sub>4</sub> SiO<sub>4</sub>

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

**Importer**

Fisher Scientific Korea  
D5,D6, Incheon Airport Logistics Complex  
150, Gonghangdong-Ro Mapo-Gu 296 Beon-Gil  
Jung-Gu, Incheon 400-340  
Tel: +82-2-6196-5500  
Fax: +82-2-6196-5501

**Supplier**

Alfa Aesar  
Thermo Fisher Scientific Chemicals, Inc.  
30 Bond Street  
Ward Hill, MA 01835-8099

**E-mail address**

Chem.KR@thermofisher.com

**Emergency Telephone Number**

**Emergency telephone:** Medical: +(82) 070-7686-0086 or + 1-703-741-5970  
CHEMTREC: 1-800-424-9300 or + 1-703-527-3887  
Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Physical hazards**

Based on available data, the classification criteria are not met

**Health hazards**

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity - (single exposure)	Category 3

**Environmental hazards**

Based on available data, the classification criteria are not met

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

## Label Elements



Signal Word

Danger

### Hazard Statements

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation  
H318 - Causes serious eye damage

### Precautionary Statements

#### Prevention

P264 - Wash hands and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area

#### Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
P330 - Rinse mouth  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
P363 - Wash contaminated clothing before reuse  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P310 - Immediately call a POISON CENTER or doctor  
P321 - Specific treatment (see supplemental first aid instructions on this label)  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor if you feel unwell

#### Storage

P405 - Store locked up  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Disposal

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

## Other Hazards

### NFPA

Health  
4

Flammability  
1

Instability  
0

Physical hazards  
-

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	Common Name	CAS No	Index No	Weight %
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	No information available	13472-30-5	KE-33700	99 - 100

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Self-Protection of the First Aider</b>	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

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes.

### **Hazardous Combustion Products**

Sodium oxides, Silicon dioxide.

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

## Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

## Environmental precautions

Should not be released into the environment. Do not allow material to contaminate ground water system.

## Methods and Material for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

### Conditions for Safe Storage, Including any Incompatibilities

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

### Specific End Uses

Use in laboratories.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Component	CAS No	Korea	ACGIH TLV	OSHA PEL
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not listed	Not listed	Not listed

Component	CAS No	European Union	The United Kingdom	Germany
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not listed	Not listed	Not listed

### Biological Exposure Indices

Component	CAS No	Biological Exposure Indices
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not listed

### Exposure Controls

#### Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

<b>Eye Protection</b>	Goggles
<b>Hand Protection</b>	Protective gloves
<b>Skin and body protection</b>	Long sleeved clothing

Inspect gloves before use.

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Personal protective equipment** Use only those certified by the Korea Occupational Safety and Health Administration.  
**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Recommended Filter type:** Particulates filter conforming to EN 143  
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly  
When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance (Physical State, Color, etc.)** White Solid Crystalline

**Odor** Odorless  
**Odor Threshold** No data available  
**pH** Not applicable

**Melting Point/Range** No data available  
**Softening Point** No data available  
**Boiling Point/Range** No information available  
**Flash Point** No information available **Method -** No information available

**Evaporation Rate** Not applicable **Solid**  
**Flammability (solid,gas)** No information available  
**Explosion Limits** No data available

**Vapor Pressure** No data available  
**Vapor Density** Not applicable **Solid**  
**Specific Gravity / Density** No data available  
**Bulk Density** No data available  
**Water Solubility** Soluble in water  
**Solubility in other solvents** No information available

### Partition Coefficient (n-octanol/water)

Component	CAS No	log Pow
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	No data available

**Autoignition Temperature** No data available  
**Decomposition Temperature** No data available  
**Viscosity** Not applicable **Solid**

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

**Explosive Properties** No information available  
**Oxidizing Properties** No information available

**Molecular Formula** Na<sub>4</sub> SiO<sub>4</sub>  
**Molecular Weight** 184.04

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity** None known, based on information available

**Chemical Stability** Stable under normal conditions.

### **Possibility of Hazardous Reactions**

**Hazardous Polymerization** No information available.  
**Hazardous Reactions** None under normal processing.

**Conditions to Avoid** None known.

**Incompatible Materials** . Strong oxidizing agents. Bases.

**Hazardous Decomposition Products**  
Sodium oxides. Silicon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Product Information**

#### **Information on expected route of exposure**

**Inhalation** Not an expected route of exposure.  
**Ingestion** May be harmful if swallowed.  
**Eyes** Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness.  
**Skin** Avoid contact with skin. Causes burns. Skin Corrosion/Irritation.

#### **Information on Health Hazards**

##### **(a) acute toxicity;**

**Oral** Category 4  
**Dermal** No data available  
**Inhalation** No data available

Component	CAS No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	No data available	No data available	No data available

**(b) skin corrosion/irritation;** Category 1

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

**(c) serious eye damage/irritation;** Category 1

**(d) respiratory or skin sensitization;**

**Respiratory** No data available  
**Skin** No data available

Component	CAS No	Test method	Test species	Study result
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	No data available	No data available	No data available

**(e) germ cell mutagenicity;** No data available

Component	CAS No	Test method	Test species	Study result
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	No data available	No data available	No data available

**(f) carcinogenicity;** No data available

Component	CAS No	Test method	Test species / Duration	Study result
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	No data available	No data available	No data available

There are no known carcinogenic chemicals in this product

Component	CAS No	IARC	NTP	ACGIH	OSHA	UK
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	Not listed	Not listed	Not listed	Not listed	Not listed

**(g) reproductive toxicity;** No data available

Component	CAS No	Test method	Test species / Duration	Study result
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	No data available	No data available	No data available

**(h) STOT-single exposure;** Category 3  
**Results / Target organs** Respiratory system.

**(i) STOT-repeated exposure;** No data available  
**Target Organs** No information available.

**(j) aspiration hazard;** Not applicable  
 Solid

**Other Adverse Effects**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Component	CAS No	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Silicic acid (H4SiO4), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity effects**

Component	CAS No	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Silicic acid (H4SiO4), tetrasodium	13472-30-5	No data available	No data available	No data available	No data available

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

salt					
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## Persistence and degradability

### **Persistence**

Soluble in water, Persistence is unlikely, based on information available.

## Bioaccumulative potential

Bioaccumulation is unlikely

## Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

## Ozone Depletion Potential

Component	CAS No	Ozone Depletion Potential
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not listed

## Other adverse effects

No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Waste from Residues/Unused Products**

Waste is classified as hazardous. Dispose in accordance with the Wastes Control Act (폐기물관리법).

#### **Contaminated Packaging**

Dispose of this container to hazardous or special waste collection point.

#### **Other Information**

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms.

## SECTION 14: TRANSPORT INFORMATION

### Road and Rail Transport

**UN-No** UN1759  
**Proper Shipping Name** Corrosive solid, n.o.s.  
**Technical Shipping Name** Sodium orthosilicate  
**Hazard Class** 8  
**Packing Group** II

### IATA

**UN-No** UN1759  
**Proper Shipping Name** CORROSIVE SOLID, N.O.S.\*  
**Technical Shipping Name** Sodium orthosilicate  
**Hazard Class** 8  
**Packing Group** II

### IMDG/IMO

**UN-No** UN1759  
**Proper Shipping Name** CORROSIVE SOLID, N.O.S.\*  
**Technical Shipping Name** Sodium orthosilicate  
**Hazard Class** 8  
**Packing Group** II  
**Marine Pollutant** No hazards identified

### **Special Precautions for User**

No special precautions required

## SECTION 15: REGULATORY INFORMATION

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

## Safety, health and environmental regulations/legislation specific for the substance or mixture

**Legend:** X - Listed '-' - Not Listed

### International Inventories

Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	KE-33700	X	236-741-3	X	X	-	X	X	X	X

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

### Korean National Regulations

Component	CAS No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	Authorised Chemicals	Existing Substances Subject to Registration
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Annex 1 - KE-33700	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

Component	CAS No	Waste Control Law	Ministry of Environment - CMR risk	Ministry of Environment - Critically Controlled Substance
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

Component	CAS No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

**National Fire Association - Dangerous Substances** Minimum quantity requiring a permit

Component	CAS No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**Control Parameters**

Component	CAS No	Korea	Biological Exposure Indices
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not listed	Not listed

**US Management Information**

**OSHA** - Occupational Safety and Health Administration

Not applicable

Component	CAS No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable

**CERCLA**

Not applicable

Component	CAS No	CERCLA EHS RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetrasodium salt	13472-30-5	Not applicable	Not applicable	Not applicable

**CLP Classification - Regulation (EC) No 1272/2008**

Danger.

H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H335 - May cause respiratory irritation.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## SECTION 16: OTHER INFORMATION

Legend

**CAS** - Chemical Abstracts Service

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

# SAFETY DATA SHEET

Sodium orthosilicate

Revision Date 18-Apr-2022

**KECL** - Korean Existing and Evaluated Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**POW** - Partition coefficient Octanol:Water

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** (volatile organic compound)

## Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

## Prepared By

Health, Safety and Environmental Department

## Creation Date

15-Apr-2015

## Revision Date

18-Apr-2022

## Revision Number

5

## Revision Summary

SDS sections updated.

## MOEL's Public Notice No. 2020-130 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**