

# SAFETY DATA SHEET

Creation Date 06-Oct-2009

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

**Product Name** 

## Cupric Carbonate, Basic Hydrate

Cat No. : C453-500

CAS No Synonyms

12069-69-1 Cupric Carbonate; Copper (II) Carbonate Hydroxide; Basic Copper Carbonate

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

Chemtrec US: (800) 424-9300 Chemtrec EU: 001-703-527-3887

## 2. Hazard(s) identification

## Classification

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

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Serious Eye Damage/Eye Irritation Category 4 Category 4 Category 2

## Label Elements

Signal Word Warning

**Hazard Statements** 

Harmful if swallowed Causes serious eye irritation Harmful if inhaled



### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear eye/face protection Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

## 3. Composition/Information on Ingredients

| Component                           |  | CAS No   | Weight % |  |
|-------------------------------------|--|--|----------|--|
| Copper(II) carbonate hydroxide      |  | 12069-69-1   | 100      |  |
|                                     |  |  |          |  |
| 4. First-aid measures               |  |  |          |  |
| General Advice                      | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |  |          |  |
| Eye Contact                         | Rinse immed  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |          |  |
| Skin Contact                        | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |  |          |  |
| Inhalation                          | Remove to fresh air. If not breathing, give artificial respiration. 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. Immediate medical attention is required. |  |          |  |
| Ingestion                           | Do NOT induce vomiting. Call a physician or poison control center immediately.   |  |          |  |
| Most important symptoms and effects | None reasonably foreseeable.   |  |          |  |
| Notes to Physician                  | Treat symptomatically  |  |          |  |
| 5. Fire-fighting measures           |  |  |          |  |

| Unsuitable Extinguishing Media                                      | No information available                             |
|---|--|
| Flash Point<br>Method -   | No information available<br>No information available |
| Autoignition Temperature<br>Explosion Limits                        | No information available                             |
| Upper   | No data available                                    |
| Lower   | No data available                                    |
| Sensitivity to Mechanical Impact<br>Sensitivity to Static Discharge | No information available<br>No information available |

### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

## **Hazardous Combustion Products**

### Copper oxides.

## **Protective Equipment and Precautions for Firefighters**

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.

| NFPA<br>Health<br>1       | Flammability<br>0  | Instability<br>0 | Physical hazards<br>N/A |  |
|---------------------------|--|------------------|-------------------------|--|
|                           | 6. Accidental re   | elease measures  |                         |  |
| Personal Precautions      | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust<br>formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe<br>areas.  |                  |                         |  |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorit should be advised if significant spillages cannot be contained. Should not be released i the environment. See Section 12 for additional Ecological Information. Avoid release to environment. Collect spillage. |                  |                         |  |

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

|          | 7. Handling and storage  |
|----------|--|
| Handling | Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. |
| Storage. | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.  |

## 8. Exposure controls / personal protection

## Exposure Guidelines

| Component            | ACGIH TLV                | OSHA PEL | NIOSH IDLH                  | Mexico OEL (TWA) |
|----------------------|--------------------------|----------|-----------------------------|------------------|
| Copper(II) carbonate | TWA: 1 mg/m <sup>3</sup> |          | IDLH: 100 mg/m <sup>3</sup> |                  |
| hydroxide            |                          |          | TWA: 1 mg/m <sup>3</sup>    |                  |

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

| Engineering Measures          | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.   |
|-------------------------------|---|
| Personal Protective Equipment |   |
| Eye/face Protection           | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.   |
| Skin and body protection      | Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| Respiratory Protection        | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Hygiene Measures              | Handle in accordance with good industrial hygiene and safety practice.  |

# 9. Physical and chemical properties

| AppearanceGreenish-blueOdorOdorlessOdor ThresholdNo information availablepHNo information availableMelting Point/Range200 °C / 392 °FBoiling Point/Range240 °C / 464 °F @ 760 mmHgFlash PointNo information availableEvaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsVot applicableUpperNo data availableLowerNo data availableVapor PressureNo information availableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2OMolecular Weight221.103   | Physical State                         | Solid                      |
|--|--|----------------------------|
| Odor ThresholdNo information availablepHNo information availableMelting Point/Range200 °C / 392 °FBoiling Point/Range240 °C / 464 °F @ 760 mmHgFlash PointNo information availableEvaporation RateNo information availableFlammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O                     | Appearance                             | Greenish-blue              |
| pHNo information availablepHNo information availableMelting Point/Range200 °C / 392 °FBoiling Point/Range240 °C / 464 °F @ 760 mmHgFlash PointNo information availableEvaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O | Odor                                   | Odorless                   |
| Melting Point/Range200 °C / 392 °FBoiling Point/Range240 °C / 464 °F @ 760 mmHgFlash PointNo information availableEvaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsVoinformation availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNo information availableMeture FormulaCu2CH2O5.H2O  | Odor Threshold                         | No information available   |
| Boiling Point/Range240 °C / 464 °F @ 760 mmHgFlash PointNo information availableEvaporation RateNo information availableFlammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNo information availableMolecular FormulaCu2CH2O5.H2O   | рН                                     | No information available   |
| Flash PointNo information availableEvaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNo information availableMolecular FormulaCu2CH2O5.H2O  | Melting Point/Range                    | 200 °C / 392 °F            |
| Evaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Boiling Point/Range                    | 240 °C / 464 °F @ 760 mmHg |
| Flammability (solid,gas)No information availableFlammability or explosive limitsNo data availableUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Flash Point                            | No information available   |
| Flammability or explosive limitsUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O   | Evaporation Rate                       | Not applicable             |
| Upper<br>LowerNo data availableVapor PressureNo data availableVapor DensityNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Flammability (solid,gas)               | No information available   |
| LowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information availableMolecular FormulaCu2CH2O5.H2O  | Flammability or explosive limits       |                            |
| Vapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Upper                                  | No data available          |
| Vapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Lower                                  | No data available          |
| Specific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O   | Vapor Pressure                         | No information available   |
| SolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O   | Vapor Density                          | Not applicable             |
| Partition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O   | Specific Gravity                       | No information available   |
| Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Solubility                             | Insoluble in water         |
| Decomposition TemperatureNo information availableViscosityNot applicableMolecular FormulaCu2CH2O5.H2O  | Partition coefficient; n-octanol/water | No data available          |
| ViscosityNot applicableMolecular FormulaCu2CH2O5.H2O   | Autoignition Temperature               | No information available   |
| Molecular Formula Cu2CH2O5.H2O   | Decomposition Temperature              | No information available   |
|  | Viscosity                              | Not applicable             |
| Molecular Weight 221.103   | Molecular Formula                      | Cu2CH2O5.H2O               |
|  | Molecular Weight                       | 221.103                    |

# 10. Stability and reactivity

| Reactive Hazard                                | None known, based on information available                |  |
|--|---|--|
| Stability                                      | Stable under normal conditions.                           |  |
| Conditions to Avoid                            | Avoid dust formation. Incompatible products. Excess heat. |  |
| Incompatible Materials                         | Strong oxidizing agents                                   |  |
| Hazardous Decomposition Products Copper oxides |   |  |
| Hazardous Polymerization                       | Hazardous polymerization does not occur.                  |  |
| Hazardous Reactions                            | None under normal processing.                             |  |

## 11. Toxicological information

## Acute Toxicity

# Product Information

| Г  | ou  | uci | IIIIO | nina | uon |      |
|----|-----|-----|-------|------|-----|------|
| Cd | ٦mı | non | ent   | Info | rma | tion |

| <b>Component Informa</b>   | tion         |                          |                           |                       |                    |                           |  |
|--|--------------|--------------------------|---------------------------|-----------------------|--------------------|---------------------------|--|
| Component  |              | LD50 Oral                |                           | LD50 Dermal           |                    | LC50 Inhalation           |  |
| Copper(II) carbonate hydroxide   |              | 500-2000 mg/kg (         | Rat) LD                   | 50 > 2000 mg/kg(Rat)  | LC50 = 1.2         | LC50 = 1.2 mg/L (Rat) 4 h |  |
| Toxicologically Syne   | eraistic     | No information a         | available                 |                       |                    |                           |  |
| Products   |              |                          |                           |                       |                    |                           |  |
| Delayed and immed  | iate effects | as well as chronic ef    | fects from short          | and long-term expo    | <u>osure</u>       |                           |  |
| Irritation   |              | Irritating to eyes       |                           |                       |                    |                           |  |
| Sensitization  |              | No information a         | available                 |                       |                    |                           |  |
| Carcinogenicity  |              | The table below          | indicates whethe          | r each agency has lis | ted any ingredient | as a carcinogen.          |  |
| Component  | CAS N        | · · ·                    | NTP                       | ACGIH                 | OSHA               | Mexico                    |  |
| Copper(II) carbonate<br>hydroxide  | 12069-69     | 9-1 Not listed           | Not listed                | Not listed            | Not listed         | Not listed                |  |
| Mutagenic Effects  |              | No information a         | No information available  |                       |                    |                           |  |
| Reproductive Effect  | S            | No information a         | No information available. |                       |                    |                           |  |
| Developmental Effect   | cts          | No information a         | No information available. |                       |                    |                           |  |
| Teratogenicity   |              | No information a         | No information available. |                       |                    |                           |  |
| STOT - single expos<br>STOT - repeated exp   |              | None known<br>None known |                           |                       |                    |                           |  |
| Aspiration hazard  |              | No information a         | No information available  |                       |                    |                           |  |
| Symptoms / effects,both acute and No information available delayed                   |              |                          |                           |                       |                    |                           |  |
| Endocrine Disruptor  | r Informatio | on No information a      | No information available  |                       |                    |                           |  |
| Other Adverse Effects The toxicological properties have not been fully investigated. |              |                          |                           |                       |                    |                           |  |
|  |              | 12. Ecc                  | ological inf              | ormation              |                    |                           |  |

**Ecotoxicity** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system.

| Persistence and Degradability        | May persist   |  |  |
|--------------------------------------|---|--|--|
| <b>Bioaccumulation/ Accumulation</b> | No information available.   |  |  |
| Mobility No information available.   |   |  |  |
|                                      | 13. Disposal considerations   |  |  |
| Waste Disposal Methods               | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |  |  |

## 14. Transport information

| DOT                  |   |
|----------------------|---|
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Technical Name       | Copper(II) carbonate hydroxide                      |
| Hazard Class         | 9   |
| Packing Group        | III   |
| TDG                  |   |
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        | III   |
|                      |   |
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        | III   |
| IMDG/IMO             |   |
| UN-No                | UN3077  |
| Proper Shipping Name | Environmentally hazardous substances, solid, n.o.s. |
| Hazard Class         | 9   |
| Packing Group        |   |
|                      | 15. Regulatory information                          |

## United States of America Inventory

| Component                      | CAS No     | TSCA | TSCA Inventory notification -<br>Active-Inactive | TSCA - EPA Regulatory<br>Flags |
|--------------------------------|------------|------|--|--------------------------------|
| Copper(II) carbonate hydroxide | 12069-69-1 | Х    | ACTIVE   | -                              |

### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                      | CAS No     | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|--------------------------------|------------|-----|------|-----------|-------|------|------|------|-------|----------|
| Copper(II) carbonate hydroxide | 12069-69-1 | Х   | -    | 235-113-6 | Х     | Х    | Х    | Х    | Х     | KE-08907 |

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

## SARA 313

| Component                      | CAS No     | Weight % | SARA 313 - Threshold<br>Values % |
|--------------------------------|------------|----------|----------------------------------|
| Copper(II) carbonate hydroxide | 12069-69-1 | 100      | 1.0                              |

### SARA 311/312 Hazard Categories See section 2 for more information

### **CWA (Clean Water Act)**

| Component                      | CWA - Hazardous<br>Substances | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|--------------------------------|-------------------------------|--------------------------------|------------------------|---------------------------|
| Copper(II) carbonate hydroxide | -                             | -                              | Х                      | -                         |

**Clean Air Act** 

Not applicable

| <b>OSHA</b> - Occupational Safety and Health Administration | Not applicable |
|---|----------------|
|   |                |

## CERCLA

Not applicable

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

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

| Component            | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------|---------------|------------|--------------|----------|--------------|
| Copper(II) carbonate | -             | Х          | Х            | -        | -            |
| hydroxide            |               |            |              |          |              |

## **U.S.** Department of Transportation

| U.S. Department of Homeland | This product does not contain any D |
|-----------------------------|-------------------------------------|
| DOT Severe Marine Pollutant | Ν                                   |
| DOT Marine Pollutant        | Ν                                   |
| Reportable Quantity (RQ):   | Ν                                   |

## Security

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade

No information available

## Authorisation/Restrictions according to EU REACH

| Component                      | REACH (1907/2006) - Annex XIV -<br>Substances Subject to<br>Authorization | REACH (1907/2006) - Annex XVII -<br>Restrictions on Certain Dangerous<br>Substances | REACH Regulation (EC<br>1907/2006) article 59 - Candidate<br>List of Substances of Very High<br>Concern (SVHC) |
|--------------------------------|---|---|--|
| Copper(II) carbonate hydroxide | -   | Use restricted. See item 75. (see link for restriction details)                     | -  |

https://echa.europa.eu/substances-restricted-under-reach

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

| Component                         | CAS No     | OECD HPV  | Persistent Organic<br>Pollutant  | Ozone Depletion<br>Potential  | Restriction of<br>Hazardous<br>Substances (RoHS) |
|-----------------------------------|------------|---|--|-------------------------------|--|
| Copper(II) carbonate<br>hydroxide | 12069-69-1 | Listed  | Not applicable   | Not applicable                | Not applicable                                   |
| Component                         | CAS No     | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste)            |
| Copper(II) carbonate<br>hydroxide | 12069-69-1 | Not applicable  | Not applicable   | Not applicable                | Annex I - Y22                                    |

|               | 16. Other information  |
|---------------|--|
| Prepared By   | Regulatory Affairs<br>Thermo Fisher Scientific<br>Email: EMSDS.RA@thermofisher.com |
| Creation Date | 06-Oct-2009  |

Revision Date Print Date Revision Summary

24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## 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

24-Dec-2021

# **End of SDS**