

SAFETY DATA SHEET

Creation Date 01-Feb-2010 Revision Date 21-Mar-2024 Revision Number 9

1. Identification

Product Name Formaldehyde, 37 wt% solution

Cat No.: BP531-25; BP531-500

Synonyms Formalin; Formol; Methanal (Molecular Biology)

Recommended Use Laboratory chemicals.

Uses advised against 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®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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)

Flammable liquids Category 4 Acute oral toxicity Category 3 Category 3 Acute dermal toxicity Acute Inhalation Toxicity - Vapors Category 3 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Skin Sensitization Category 1 Category 2 Germ Cell Mutagenicity Category 1A Carcinogenicity Specific target organ toxicity (single exposure) Category 1 Target Organs - Respiratory system, Central nervous system (CNS), Optic nerve.

Label Elements

Signal Word

Danger

Hazard Statements

Combustible liquid

Causes severe skin burns and eye damage

May cause respiratory irritation

May cause an allergic skin reaction

Suspected of causing genetic defects

May cause cancer

Causes damage to organs

Toxic if swallowed, in contact with skin or if inhaled



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

Keep cool

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

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

Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Eyes

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

Ingestion

Rinse mouth

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. CANNOT BE MADE NON-POISONOUS. WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|----------------|-----------|----------|
| Water | 7732-18-5 | 40-46 |
| Formaldehyde | 50-00-0 | 35-41 |
| Methyl alcohol | 67-56-1 | 5-14 |

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation 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. Remove to fresh

air. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Causes burns by all exposure routes. May cause allergic skin reaction. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Ingestion causes severe swelling,

severe damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water mist may be used to cool closed containers. CO 2, dry chemical, dry sand,

alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 63 - 75 °C / 145.4 - 167 °F

Method - No information available

Autoignition Temperature 424 °C / 795.2 °F

Explosion Limits

Upper 73 vol % **Lower** 7 vol %

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Combustible material. Containers may explode when heated.

Hazardous Combustion Products

Formic acid. Oxygen from the air can oxidize formaldehyde to formic acid, especially when heated. Carbon monoxide (CO), Carbon

dioxide (CO₂).

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

Health **Flammability** Instability Physical hazards N/A 3 2

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all

sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

Remove all sources of ignition.

7. Handling and storage

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on Handling

clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open

flames, hot surfaces and sources of ignition.

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

Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Potassium permanganate. Peroxides. Perchloric acid + aniline. Strong bases. Sodium hydroxide. Ammonia. Hydroxides. Sodium bisulfite. Strong acids. Hydrogen chloride.

Isocyanates. Acid anhydrides. Magnesium carbonates. Iodine.

8. Exposure controls / personal protection

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH | Mexico OEL (TWA) |
|----------------|---------------|---------------------------------------|-----------------------------|------------------|
| Formaldehyde | TWA: 0.1 ppm | (Vacated) TWA: 3 ppm | IDLH: 20 ppm | Ceiling: 0.3 ppm |
| | STEL: 0.3 ppm | (Vacated) STEL: 10 ppm | TWA: 0.016 ppm | |
| | | (Vacated) Ceiling: 5 ppm | Ceiling: 0.1 ppm | |
| | | TWA: 0.75 ppm | | |
| | | STEL: 2 ppm | | |
| Methyl alcohol | TWA: 200 ppm | (Vacated) TWA: 200 ppm | IDLH: 6000 ppm | TWA: 200 ppm |
| | STEL: 250 ppm | (Vacated) TWA: 260 mg/m ³ | TWA: 200 ppm | STEL: 250 ppm |
| | Skin | (Vacated) STEL: 250 ppm | TWA: 260 mg/m ³ | |
| | | (Vacated) STEL: 325 mg/m ³ | STEL: 250 ppm | |
| | | Skin | STEL: 325 mg/m ³ | |
| | | TWA: 200 ppm | | |
| | | TWA: 260 mg/m ³ | | |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers

are close to the workstation location. Use explosion-proof electrical/ventilating/lighting

equipment. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eve 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.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection**

> 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.

Organic gases and vapours filter. Type A. Brown. conforming to EN14387. Recommended Filter type:

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

9. Physical and chemical properties

Physical State Liquid Colorless **Appearance** Odor Irritating pungent **Odor Threshold** 0.8 - 1 ppm 3-4.2 pН

Melting Point/Range -15 °C / 5 °F **Boiling Point/Range**

97 °C / 206.6 °F @ 760 mmHg **Flash Point** 63 - 75 °C / 145.4 - 167 °F

Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

73 vol % Upper Lower 7 vol %

2 mbar @ 20 °C **Vapor Pressure**

Vapor Density > 1.0 **Specific Gravity** 1.083 Solubility miscible

Partition coefficient; n-octanol/water No data available 424 °C / 795.2 °F **Autoignition Temperature**

Decomposition Temperature > 150°C

Viscosity 1.0 mPas @ 20°C

C H2 O Molecular Formula **Molecular Weight** 30.02

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stabilized with Methanol. Hazardous polymerization may Stability

occur upon depletion of inhibitor.

Conditions to Avoid Temperatures above 65°C. Keep away from open flames, hot surfaces and sources of

ianition.

Incompatible Materials Strong oxidizing agents, Potassium permanganate, Peroxides, Perchloric acid + aniline,

> Strong bases, Sodium hydroxide, Ammonia, Hydroxides, Sodium bisulfite, Strong acids, Hydrogen chloride, Isocyanates, Acid anhydrides, Magnesium carbonates, Iodine

Hazardous Decomposition Products Formic acid, Oxygen from the air can oxidize formaldehyde to formic acid, especially when

heated, Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous polymerization may occur upon depletion of inhibitor. **Hazardous Polymerization**

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Category 3. ATE = 50 - 300 mg/kg. **Dermal LD50** Category 3. ATE = 200 - 1000 mg/kg. Vapor LC50 Category 3. ATE = 2 - 10 mg/l.

Component Information

| oomponent information | compensit information | | | | | | | | |
|---|-----------------------|-------------------------------|-----------------------------|--|--|--|--|--|--|
| Component LD50 Oral | | LD50 Dermal | LC50 Inhalation | | | | | | |
| Water | Water - | | - | | | | | | |
| Formaldehyde | 500 mg/kg (Rat) | LD50 = 270 mg/kg (Rabbit) | 0.578 mg/L (Rat) 4 h | | | | | | |
| Methyl alcohol LD50 = 1187 – 2769 mg/kg (Rat) | | LD50 = 17100 mg/kg (Rabbit) | LC50 = 128.2 mg/L (Rat) 4 h | | | | | | |

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Causes burns by all exposure routes Irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|----------------|-----------|------------|------------|------------|------------|------------|
| Water | 7732-18-5 | Not listed |
| Formaldehyde | 50-00-0 | Group 1 | Known | A1 | X | A2 |
| Methyl alcohol | 67-56-1 | Not listed |

IARC (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

ACGIH: (American Conference of Governmental Industrial

Mexico - Occupational Exposure Limits - Carcinogens

Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic effects have occurred in humans.

Reproductive Effects No information available.

No information available. **Developmental Effects**

No information available. **Teratogenicity**

STOT - single exposure Respiratory system Central nervous system (CNS) Optic nerve

STOT - repeated exposure None known

No information available Aspiration hazard

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and

feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|----------------|------------------------|---------------------------|--------------------------|-----------------------|
| Formaldehyde | EC50 (72h) = 4.89 mg/L | Leuciscus idus: LC50 = 15 | Not listed | EC50 = 20 mg/L 96h |
| | (Desmodesmus | mg/L 96h | | EC50 = 2 mg/L 48h |
| | subspicatus) | | | |
| Methyl alcohol | Not listed | Pimephales promelas: LC50 | EC50 = 39000 mg/L 25 min | EC50 > 10000 mg/L 24h |
| 1 | | > 10000 mg/L 96h | EC50 = 40000 mg/L 15 min | |
| | | | EC50 = 43000 mg/L 5 min | |

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available. Miscible with water

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

| Component | log Pow |
|----------------|---------|
| Formaldehyde | -0.35 |
| Methyl alcohol | -0.74 |

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.

| Component | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Formaldehyde - 50-00-0 | U122 | - |
| Methyl alcohol - 67-56-1 | U154 | - |

14. Transport information

DOT

UN-No UN2209

Proper Shipping Name FORMALDEHYDE SOLUTIONS

Hazard Class 8
Packing Group III

TDG

UN-No UN2209

Proper Shipping Name FORMALDEHYDE SOLUTION

Hazard Class 8
Packing Group

<u>IATA</u>

UN-No UN2209

Proper Shipping Name FORMALDEHYDE SOLUTION

Hazard Class 8
Packing Group III

IMDG/IMO

UN-No UN2209

Proper Shipping Name FORMALDEHYDE SOLUTION

Hazard Class

Packing Group

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15. Regulatory information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------|-----------|------|---|--------------------------------|
| | | | Active-inactive | riays |
| Water | 7732-18-5 | Χ | ACTIVE | - |
| Formaldehyde | 50-00-0 | X | ACTIVE | - |
| Methyl alcohol | 67-56-1 | X | ACTIVE | - |

Legend:

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

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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 |
|----------------|-----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Water | 7732-18-5 | X | - | 231-791-2 | Х | Х | | Х | Х | KE-35400 |
| Formaldehyde | 50-00-0 | Х | - | 200-001-8 | Х | Χ | Х | Х | Х | KE-17074 |
| Methyl alcohol | 67-56-1 | Х | - | 200-659-6 | Х | Х | Х | Х | Х | KE-23193 |

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 Values % | SARA 313 - Reporting threasholds |
|----------------|---------|----------|----------------------------------|----------------------------------|
| Formaldehyde | 50-00-0 | 35-41 | 0.1 % | - |
| Methyl alcohol | 67-56-1 | 5-14 | 1.0 % | - |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|--------------|-------------------------------|--------------------------------|------------------------|---------------------------|
| Formaldehyde | X | 100 lb | - | - |

Clean Air Act

| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|-----------|-------------------------|-------------------------|
| Formaldehyde | X | | - |
| Methyl alcohol | X | | - |

OSHA - Occupational Safety and

Health Administration

Not applicable

| Component | Specifically Regulated Chemicals | Highly Hazardous Chemicals |
|--------------|----------------------------------|----------------------------|
| Formaldehyde | 2 ppm STEL | TQ: 1000 lb |
| | 0.5 ppm Action Level | |
| | 0.75 ppm TWA | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

| Component | Hazardous Substances RQs | CERCLA Extremely Hazardous Substances RQs | SARA Reportable Quantity (RQ) |
|----------------|-----------------------------|---|-------------------------------|
| Formaldehyde | 100 lb | 100 lb | 100 lb 45.4 kg |
| Methyl alcohol | 5000 lb | - | 5000 lb 2270 kg |

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Component | CAS No | California Prop. 65 | Prop 65 NSRL | Category |
|----------------|---------|----------------------|--------------|---------------|
| Formaldehyde | 50-00-0 | Carc. (Gaseous only) | 40 μg/day | Carcinogen |
| Methyl alcohol | 67-56-1 | Developmental | - | Developmental |

U.S. State Right-to-Know

Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Water | - | - | X | - | - |
| Formaldehyde | X | X | X | X | X |
| Methyl alcohol | X | X | X | X | X |

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product contains the following DHS chemicals:

Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

| Component | DHS Chemical Facility Anti-Terrorism Standard |
|--------------|---|
| Formaldehyde | Release STQs - 15000lb (solution) |

Other International Regulations

Mexico - Grade

Moderate risk, Grade 2

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|--------------|-----------|---|---|---|
| Water | 7732-18-5 | - | - | - |
| Formaldehyde | 50-00-0 | - | Use restricted. See item 72. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) | - |

| | | Use restricted. See item 75. (see link for restriction details) |
|----------------|---------|---|
| Methyl alcohol | 67-56-1 | - Use restricted. See item 69. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) |

REACH links

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 Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------|-----------|----------|---------------------------------|------------------------------|--|
| Water | 7732-18-5 | Listed | Not applicable | Not applicable | Not applicable |
| Formaldehyde | 50-00-0 | Listed | Not applicable | Not applicable | Not applicable |
| Methyl alcohol | 67-56-1 | Listed | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

| Component | CAS No | ` | | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|----------------|-----------|--|--|-------------------------------|------------------------------------|
| | | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report | | |
| | | Notification | Requirements | | |
| Water | 7732-18-5 | Not applicable | Not applicable | Not applicable | Not applicable |
| Formaldehyde | 50-00-0 | 5 tonne | 50 tonne | Not applicable | Not applicable |
| Methyl alcohol | 67-56-1 | 500 tonne | 5000 tonne | Not applicable | Not applicable |

| 16 | Othor | information | |
|-----|-------|-------------|--|
| IO. | Other | ппонтанон | |

Prepared By Regulatory Affairs

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Revision Summary 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

End of SDS