SAFETY DATA SHEET

Version 2.0 Revision Date 2020.09.03
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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name : Zinc methoxide colloid

Brand : Microbe Free®

EINECS NO. 243-814-3

CAS 20427-58-1 / HS CODE 38123090.00

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

Identified uses Laboratory chemicals or , Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company Name CSIC (Shenyang) Microbe Free Technologies Corporation
Address SANHAO MAKER SPACE, Tongfang Plaza
No.96 Sanhao St. Heping District, Shenyang, China
Telephone +86-024-3131-5458
E-mail Address mf@microbe-free.cn 770413048@qq.com

1.4 Emergency Telephone Number

Telephone +86-024-3131-5458

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritating to eyes, respiratory system and skin.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Warning statement

Precaution

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Clean skin thoroughly after operation.

P271 can only be used outdoors or in a well-ventilated place.

P280 Wear protective gloves/eye masks/face masks.

measures

P302 + P352 If on skin: Rinse with plenty of soap and water.

P304 + P340 If inhaled: move the patient to fresh air for rest, and keep the position of easy breathing.

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 If you feel unwell, call the detoxification center or a doctor for help.

P321 specific treatment (see first aid instructions provided on this label).

P332 + P313 In case of skin irritation: seek medical advice/advice.

P337 + P313 If eye irritation persists: seek medical advice/advice.

P362 Remove contaminated clothes and wash them before reuse.

storage

P403 + P233 shall be stored in a well-ventilated place.Keep container tightly closed.

P405 storage must be locked.

To deal with

P501 dispose of contents/containers to approved waste treatment plant.

2.3 Other hazards – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Zinc hydroxide

Molecular Weight : 127.52 g/mol

Total dissolved solids (TDS)≥ 730,000 mg/L

Zinc content ≥ 250,000 PPM

Zinc content Detection Method: Inductively Coupled Plasma Emission Spectrometer (ICP)

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Zinc/zinc oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

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

Moisture sensitive. Handle and store under inert gas.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Pale yellow Viscous liquid
b) Odour	weak penetrating odor
c) Odour Threshold	no data available

d) pH	2.5-3
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	50℃
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.5g/cm^3
n) Water solubility	no data available
o) Partition coefficient:	no data available
p) Autoignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	61.0mm^2/s
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents, Violent chemical reaction; water reactive

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

UN1992

14.2 UN proper shipping name

Suggestion according to IATA DGR

Shipping Name: Flammable liquid, toxic, n.o.s.

(containing Methanol)

Class or Division:3

Subsidiary Hard:6.1

UN Number:UN1992

14.3 Transport hazard class(es)

Flammable liquid(main), Toxic(sub).

14.4 Packaging group

Packing Group Ⅲ

14.5 Identification of Explosive Hazard

The product is not classified in Explosives.

14.6 Identification of Flammable Hazards

In the closed-cup flash point test, fp 50℃ , so the substance is classified in Class 3 (Flammable Liquids).

14.7 Identification of Oxidative Hazards

The product is not classified in oxidizing substance and organic peroxides.

14.8 Identification of Toxic & Infections Hazards

The product is classified in Division 6.1(Toxic Substances).

14.9 Identification of Radioactive Hazard

The product is not classified in radioactive material.

14.10 Identification of Corrosive Hazard

The product is not classified in corrosives.

14.11 Identification of other Hazards

The product is extremely irritation to eyes and skin, direct contact with the goods is forbidden.

15. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CSIC (shenyang) Microbe Free Technologies Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See the reverse side of invoice or packing slip for additional terms and conditions of sale.