



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Sodium metabisulfite

Contact Information:

Company: Aurora Industry Co.,Ltd.

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2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Harmful if swallowed. Contact with acids liberates toxic gas. Risk of serious damage to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Sodium disulfite

Sodium pyrosulfite

Formula : $\text{Na}_2\text{S}_2\text{O}_5$

Molecular Weight : 190,10 g/mol

CAS-No. EC-No. Index-No. Classification Concentration

Sodium metabisulphite

7681-57-4 231-673-0 016-063-00-2 Xn, R22 - R31 - R41 -

4. 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

Wash off with soap and plenty of water. 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding



environment.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

7. HANDLING AND STORAGE

Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Storage

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

Do not store near acids.

Air and moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Eye protection Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

9. PHYSICAL AND CHEMICAL PROPERTIES



Appearance

Form powder

Colour colourless

Odour pungent

Safety data

pH 4,5 at 50 g/l at 20 !a

Melting point 300 !aC

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 1,480 g/cm³

Water solubility 650 g/l at 20 !aC

Partition coefficient: log Pow: -3,7

n-octanol/water

10. STABILITY AND REACTIVITY

Storage stability

Exposure to moisture. Stable under recommended storage conditions.

Conditions to avoid

Exposure to air. Heat.

Materials to avoid

Strong acids, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - > 2.000 mg/kg

LD50 Dermal - rat - > 2.000 mg/kg

Irritation and corrosion

no data available

Sensitisation

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Chronic exposure

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.

Potential Health Effects

May be harmful if inhaled. May cause respiratory tract irritation.

Inhalation

May be harmful if absorbed through skin. May cause skin irritation.



Skin

Causes serious eye irritation.

Eyes

Harmful if swallowed.

Ingestion

Additional Information

RTECS: UX8225000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

The methods for determining biodegradability are not applicable to inorganic substances.

no data available

Ecotoxicity effects

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 150 - 220 mg/l - 96 h

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 89 mg/l - 24 h

and other aquatic

invertebrates.

Toxicity to algae IC50 - *Scenedesmus subspicatus* - 48 mg/l - 72 h

Toxicity to bacteria - *Pseudomonas putida* - 56 mg/l - 17 h

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal

service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

EC Label



Hazard symbols

Xn Harmful

R-phrases(s)

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R41 Risk of serious damage to eyes.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 Wear eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

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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.