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Safety data sheet

Sodium Metabisulfite

BASF Safety data sheet according to 91/155/EEC
Date / Revised: 09.12.2003 Version: 3.0
Product: **Sodium Metabisulfite**
(30042378/SDS_GEN_EU/EN)
Date of print 10.12.2003

Distributed By:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
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1. Substance/preparation and company identification

Use: Chemical
Company: BASF Aktiengesellschaft
Unternehmensbereich Anorganika E-CAA
67056 Ludwigshafen, Deutschland
Telephone: +49-621-60-76416
Telefax number: +49-621-60-76318
E-mail address: claudia.kraeh@basf-ag.de
Emergency information:
Fire brigade BASF Ludwigshafen
Telephone: +49-621-60-43333
Telefax number: +49-621-60-92664

2. Composition/information on ingredients

Chemical nature
disodium disulphite
CAS Number: 7681-57-4
EC-Number: 231-673-0
INDEX-Number: 016-063-00-2
Na₂S₂O₅

3. Hazard identification

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

4. First-aid measures

General advice:
Remove contaminated clothing.
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If inhaled:
If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Hazards: Risk of sulfur dioxide development by reaction with gastric acid after swallowing.

5. Fire-fighting measures

Suitable extinguishing media:

water

Specific hazards:

Sulphur dioxide

The substances/groups of substances mentioned can be released if the product is involved in a fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Ensure adequate ventilation. Avoid contact with eyes.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking up:

For large amounts: Sweep/shovel up. Dispose of contaminated material as prescribed.

For residues: Rinse away with water.

7. Handling and storage

Handling

Avoid dust formation.

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Protection against fire and explosion:

The substance/product is non-combustible. No special precautions necessary.

Storage

Segregate from oxidants. Segregate from acids and acid forming substances.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

8. Exposure controls and personal protection

Components with workplace control parameters

7681-57-4: disodium disulphite

7446-09-5: Sulphur dioxide

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Suitable respiratory protection for lower concentrations or short-term effect: Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

polyvinylchloride (PVC) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (splash goggles) (EN 166)

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: powder, crystalline

Colour: white to slightly yellow

Odour: faint odour, of sulfur dioxide

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pH value: 4,0 - 4,8

(5 %(m), 20 °C)

decomposition point: 150 °C

Density: 1,48 g/cm³

(20 °C)

Bulk density: 1.000 - 1.200 kg/m³

Solubility in water:

470 g/l

(20 °C)

Partitioning coefficient n-octanol/water (log Pow): -3,7

10. Stability and reactivity

Thermal decomposition: 150 °C

To avoid thermal decomposition, do not overheat.

Substances to avoid:

acids, oxidizing agent, nitrites, nitrates, sulfides

Hazardous reactions:

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents.

Hazardous decomposition products:

Sulphur dioxide

11. Toxicological information

LD50/oral/rat/male/female: 1.540 mg/kg (OECD Guideline 401)

Harmful if swallowed.

Primary skin irritation/rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane/rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Further information:

The substance was mutagenic in various test systems with microorganisms; however, these results could not be confirmed in tests with mammals.

Results from a number of long-term carcinogenicity studies and short-term test are available. Taking into account all of the information, there is no indication that the substance is carcinogenic.

The results of animal studies gave no indication of a fertility impairing effect.

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

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Experiences in humans:

Skin irritations described in isolated cases.

Additional information:

after oral administration

after inhalation

with sensitive persons it can lead to an over sensitive reaction.

12. Ecological information

Ecotoxicity

Toxicity to fish:

other static

Lepomis macrochirus/LC50 (96 h): 32 mg/l

Nominal concentration

Aquatic invertebrates:

Directive 79/831/EEC static

Daphnia magna/EC50 (48 h): 89 mg/l

Nominal concentration

Aquatic plants:

other static

algae/EC50 (72 h): 48,1 mg/l

Nominal concentration

Microorganisms/Effect on activated sludge:

DIN 38412 Part 27 (draft) aquatic

Pseudomonas putida/EC10 (17 h): 30,8 mg/l

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

Mobility

adsorption/water - soil

log KOC: 0,34

Adsorption to solid soil phase is not expected.

volatility/water - air

The substance will not evaporate into the atmosphere from the water surface.

Persistence and degradability

Assessment: Inorganic product which cannot be eliminated from water by biological purification processes.

Chemical oxygen demand (COD): (calculated) 165 mg/g

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Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways.

13. Disposal considerations

Contact manufacturer regarding recycling.

Contact waste centre regarding recycling.

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EC-Number: 231-673-0

as in Directive 67/548/EEC:

Hazard symbol(s)

Xn Harmful.

R-phrase(s)

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R41 Risk of serious damage to eyes.

S-phrase(s)

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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.

Hazard determinant component(s) for labelling: disodium disulphite

Other regulations

16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.