

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

Product identifier:

Trade name:

REACH registration No.: 01-2119552465-36-XXXX

CAS-Number: 7681-38-1

EC-number: 231-665-7

EU index number: 016-046-00-X

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

General use: Chemical basic material.

Identified uses:

Consumer use: Use in cleaning agents.
Use as pH-regulator.

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2. HAZARDS IDENTIFICATION

Label elements:

Labelling (CLP):



Signal word: Danger

Hazard statements: H318 Causes serious eye damage.

Precautionary statements: P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a POISON CENTER/doctor.

Other hazards: Inhalation of dust may cause irritation of the respiratory system.

[cont...]

SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 2

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

| | |
|-----------------------------------|---|
| Chemical characterisation: | NaHSO ₄ , Sodium hydrogen sulphate > 93% |
| CAS-Number: | 7681-38-1 |
| EC-number: | 231-665-7 |
| EU index number: | 016-046-00-X |
| RTECS-Number: | VZ1860000 |

4. FIRST AID MEASURES

Description of first aid measures:

| | |
|--------------------------------|---|
| General information: | If you feel unwell, seek medical advice. |
| In case of inhalation: | Move victim to fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration. Consult physician immediately. |
| Following skin contact: | Thoroughly wash skin with soap and water. Consult physician. |
| After eye contact: | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. |
| After swallowing: | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician immediately. |

Most important symptoms and effects, both acute and delayed: No data available

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water fog, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons: High power water jet

Special hazards arising from the substance or mixture: In case of fire may be liberated: sulphur oxides.

Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus.

Additional information: Hazchem-Code: Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat run off as hazardous.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation, and local exhaust as needed. Wear protective equipment. Avoid generation of dust. Do not breathe dust. Avoid contact with skin and eyes.

[cont...]

SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 3

Environmental precautions: Do not allow to enter into groundwater, surface water or drains.

Methods and material for containment and cleaning up: Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections: Refer additionally to section 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid the formation of aerosol. Do not breathe spray.
Avoid generation of dust. Do not breathe dust.
Wear protective equipment. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities:

Requirements for storerooms and containers:

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

Storage class: 13 = Non-combustible solids

Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Additional information: Contains no substances with occupational exposure limit values.

PNEC: PNEC water (freshwater): 11.09 mg/L
PNEC water (marine water): 1.109 mg/L
PNEC water (intermittent release): 17.66 mg/L
PNEC sediment (freshwater): 40.2 mg/kg dw
PNEC sediment (marine water): 4.02 mg/kg dw
PNEC soil: 1.54 mg/kg dw
PNEC sewage treatment plant: 800 mg/L

Exposure controls: Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment:

Occupational exposure controls:

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter. (Particulates filter P1 according to EN 143.)

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

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SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 4

General protection and hygiene measures: Avoid the formation of aerosol. Do not breathe spray.

Avoid generation of dust. Do not breathe dust.

Avoid contact with skin and eyes.

Take off immediately all contaminated clothing.

Eye wash facility must be provided.

Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:

Form: Solid

Colour: White

Odour: Odourless

Odour threshold: No data available

pH value: No data available

Melting point/freezing point: 315 °C

Initial boiling point and boiling range: No data available

Flash point/flash point range: No data available

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 20 °C: 2.44 g/cm³

Water solubility: 285 g/L

Partition coefficient: n-octanol/water: no data available

Auto-ignition temperature: No data available

Thermal decomposition: 460 °C

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing characteristics: No data available

Other information:

Additional information: Molecular weight: 120.06 g/mol

10. STABILITY AND REACTIVITY

Reactivity:

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions are known.

Conditions to avoid: Humidity

Incompatible materials: Strong bases and oxidizing agents.

Hazardous decomposition products: In case of fire may be liberated: sulphur oxides.

Thermal decomposition: 460 °C

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SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

LD50 Rat, oral (sulphuric acid): 2140 mg/kg

LD50 Rat, oral (sodium sulphate): > 2000 mg/kg (OECD 423)

LC50 Rat, inhalative (sodium sulphate): > 2.4 mg/L/4h (OECD 436)

Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Rabbit: Not an irritant (OECD 404)

Eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Rabbit: Irritant (OECD 405)

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Guinea pig: Not sensitising (OECD 406, sodium sulphate, read-across)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Ames test: Negative (sodium sulphate, read-across) gene-mutations mammalian cells, Mouse: negative (OECD 476, sodium sulphate, read-across) chromosomal aberrations mammalian cells, hamster: negative (OECD 473, sodium sulphate, read-across).

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Reproduction toxicity:

NOEL Mouse: 1000 mg/kg/d (OECD 421, sodium sulphate, read-across)

Developmental toxicity:

NOEL Rat: 1000 mg/kg/d (OECD 414, sodium sulphate, read-across)

Effects on or via lactation: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

NOAEL Rat, oral: 1000 mg/kg bw/d (OECD 421, sodium sulphate, read-across)

Aspiration hazard: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity:

Acute (short-term) fish toxicity:

LC50 Pimephales promelas (fathead minnow): 7960 mg/L/96h (EPA 600/4-90/027, sodium sulphate, read-across)

Acute Daphnia toxicity:

LC50 Daphnia magna (Big water flea): 1766 mg/L/48h (EPA 600/R-94/024, sodium sulphate, read-across)

Chronic daphnia toxicity:

NOEC Ceriodaphnia dubia: 1109 mg/L (ASTM E 1295-01, sodium sulphate, read-across)

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SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 6

Algae toxicity:

EC50 Nitzschia linearis: 1900 mg/L/120h (sodium sulphate, read-across)

Further details:

Sediment toxicity: LC50 Hyalella azteca: 757 mg/L/96h (sodium sulphate, read-across)

Persistence and degradability:

Further details: The methods for determining the biological degradability are not applicable to inorganic substances.

Effects in sewage plants: NOEC activated sludge: 8 g/L/37d

Bioaccumulative potential: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects:

General information: Do not allow to enter into ground-water, surface water or drains.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:**Product:**

Waste key number: 06 03 14 = Wastes from the MFSU of salts and their solutions and metallic oxides.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging:

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

14. TRANSPORT INFORMATION

UN number:

ADR/RID, IMDG, IATA-DGR: Not applicable

UN proper shipping name:

ADR/RID, IMDG, IATA-DGR: Not restricted

Transport hazard class(es):

ADR/RID, IMDG, IATA-DGR: Not applicable

Packing group:

ADR/RID, IMDG, IATA-DGR: Not applicable

[cont...]

SAFETY DATA SHEET

Sodium Bisulphate

Issued: 23/10/2017

Page 7

Environmental hazards:

Marine pollutant: No

Special precautions for user: No dangerous good in sense of these transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No data available

15. REGULATORY INFORMATION

Chemical Safety Assessment: For this substance a chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.