



## SAFETY DATA SHEET

SODIUM BISULPHATE

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Compilation date: 30/06/2010

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Revision No: 3

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** SODIUM BISULPHATE

**REACH registered name:** SODIUM HYDROGENSULPHATE

**REACH registered number(s):** 01-2119552465-36-XXXX

**CAS number:** 7681-38-1

**EINECS number:** 231-665-7

**Index number:** 016-046-00-X

**Product code:** 2260082

**Synonyms:** DRY ACID

SODIUM HYDROGENSULPHATE

PH MINUS

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

**Use of substance / mixture:** \* pH Adjustment. Water Treatment. Chemical manufacturing.

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** Monarch Chemicals Limited

New Road

Sheerness

Kent

ME12 1LZ

United Kingdom

**Tel:** 01795 583333 (09:00 - 17:00 Mon-Fri)

**Fax:** 01795 583300

**Email:** sales@monarchchemicals.co.uk

#### 1.4. Emergency telephone number

**Emergency tel:** 07711 009064 (Out of Hours)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CHIP:** Xi: R41

**Classification under CLP:** Eye Dam. 1: H318

**Most important adverse effects:** Risk of serious damage to eyes.

[cont...]

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## 2.2. Label elements

### Label elements under CLP:

**Hazard statements:** \* H318: Causes serious eye damage.

**Signal words:** \* Danger

**Hazard pictograms:** \* GHS05: Corrosion



**Precautionary statements:** \* P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: 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 or doctor.

P501: Dispose of contents/container to : An approved recycle or waste disposal facility.

### Label elements under CHIP:

**Hazard symbols:** Irritant.



**Risk phrases:** R41: Risk of serious damage to eyes.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

SODIUM HYDROGENSULPHATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-665-7	7681-38-1	Xi: R41	Eye Dam. 1: H318	>90%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** \* Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. If irritation develops or persists seek medical attention.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** \* Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

[cont...]

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**Inhalation:** \* Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If symptoms develop seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Repeated or long exposure can cause reddening, burning and blisters.

**Eye contact:** \* Risk of serious damage to eyes. There may be irritation and redness. The eyes may water profusely. There may be severe pain. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. May cause irritation of the gastrointestinal tract. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. May cause irritation of the mucous membranes and respiratory system. May cause shortness of breath, sneezing and coughing. High concentrations are irritant to the respiratory tract. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** \* Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** \* Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Water fog. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of sulphur oxides. The product does not support combustion. Dust-Air mixtures may ignite or explode.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS. Do not create dust.

[cont...]

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## 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water. Product may be dampened with a little water to reduce dust formation.

## 6.4. Reference to other sections

**Reference to other sections:** \* Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** \* Wear suitable protective clothing. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid contact with the material and breathing its dust. Ensure that contaminated clothing is thoroughly laundered prior to re-use.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** \* Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity. Avoid incompatible materials and conditions - see section 10 of SDS.  
Do not store near foodstuffs.

**Suitable packaging:** Plastic. Plastic-lined.

### 7.3. Specific end use(s)

**Specific end use(s):** No special requirement.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits:

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4 mg/m <sup>3</sup>	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** \* Respiratory protective device with particle filter. Particle filter class P3S (EN143).

**Hand protection:** \* Gloves (acid resistant). Rubber gloves.

**Eye protection:** Safety glasses. Face-shield. Ensure eye bath is to hand.

[cont...]

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**Skin protection:** Protective clothing. Boots. Ensure safety shower is to hand.

**Environmental:** \* No special requirement.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Powder, crystals or granules.

**Colour:** White

**Odour:** Barely perceptible odour

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Melting point/range°C:** ~ 180

**Relative density:** 1.2 - 1.5 g/ml -Bulk

**pH:** < 1.5 (Aqu. Soln)

### 9.2. Other information

**Other information:** Product is not flammable. No further information available at this time.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions. Product has a tendency to cake.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Moist air. Humidity. Moisture.

### 10.5. Incompatible materials

**Materials to avoid:** May react with certain metals to liberate flammable Hydrogen gas. Any materials that are attacked by Sulphuric Acid.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of sulphur oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

[cont...]

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## \* Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	2490	mg/kg

## Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Repeated or long exposure can cause reddening, burning and blisters.

**Eye contact:** \* Risk of serious damage to eyes. There may be irritation and redness. The eyes may water profusely. There may be severe pain. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. May cause irritation of the gastrointestinal tract. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. May cause irritation of the mucous membranes and respiratory system. May cause shortness of breath, sneezing and coughing. High concentrations are irritant to the respiratory tract. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** \* There is no further information at this time.

## Section 12: Ecological information

### 12.1. Toxicity

#### \* Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	190	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** \* The product is inorganic so can not be biodegradable, however it is expected to degrade or disassociate.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** There is no data available at present. Product is not expected to bioaccumulate.

### 12.4. Mobility in soil

**Mobility:** \* Soluble in water. Non-volatile.

[cont...]

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## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH. Large doses causes high/low pH which may affect effluent and sewage treatment processes.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** \* Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** \* No information available at this time.

**Disposal of packaging:** Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contactor.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** \* No specific applicable legislation.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** \* A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** \* This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

\* indicates text in the SDS which has changed since the last revision.

There are no exposure levels set for the specific product thus the following levels should be adhered to,

Total Inhalable Dust (8 hr TWA): 10 mg/m<sup>3</sup>  
hr TWA): 4 mg/m<sup>3</sup>

Respirable Dust (8

[cont...]

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**Phrases used in s.2 and s.3:** H318: Causes serious eye damage.

R41: Risk of serious damage to eyes.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.