

SAFETY DATA SHEET Sodium Bisulphate

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Sodium Bisulphate
Synonyms, Trade Names	Sodium Hydrogen Sulphate, Dry acid, pH reducer
CAS-No.	7681-38-1
EU Index No.	016-046-00-X
EC No.	231-665-7

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

Identified uses

pH regulating agent Plating and metal surface treatment agents Animal feed.

1.3. Details of the supplier of the safety data sheet

Supplier

Industrial Chemicals Limited Hogg Lane Grays Essex RM17 5DU United Kingdom T:+44 (0)1375 389000 F:+44 (0)1375 389110 sds@icgl.co.uk

1.4. Emergency telephone number

+44 (0)1865 407333 (24-hour)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Eye Dam. 1 - H318
Environment	Not classified.
Xi;R41	

 Classification (67/548/EEC)
 Xi;R41

 The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

EC No.	231-665-7
Label In Accordance With	(EC) No. 1272/2008



Signal Word Hazard Statements Danger

H318

Precautionary Statements

Supplementary Precautionary Statements

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wear protective gloves/protective clothing/eye protection/face protection. Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

P280

P310

3.1. Substances

Bisulphate
3-1
6-00-X
5-7
94
;

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Apply artificial respiration if breathing has ceased or is failing. Keep the affected person warm and at rest. Get prompt medical attention. For breathing difficulties oxygen may be necessary. Do not use mouth-to-mouth resucitation if victim ingested or inhaled the substance.

Ingestion

Rinse nose, mouth and throat with water. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Do not induce vomiting.

Skin contact

Rinse the skin immediately with lots of water. Immediately remove contaminated clothing. Wash clothing before reuse Contact physician if irritation continues or sores develop.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Skin contact

Skin irritation.

Eye contact

Irritation and redness followed by blurred vision. May cause severe irritation to eyes.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Sulphuric acid (H2SO4). Sulphurous gases (SOx).

Unusual Fire & Explosion Hazards

May give rise to hazardous fumes in fire.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Sodium Bisulphate

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2. Environmental precautions

Avoid discharge into drains or rivers. Do not allow to penetrate the ground/soil. Inform the relevant authorities if this should occur.

6.3. Methods and material for containment and cleaning up

Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Mechanical ventilation or local exhaust ventilation may be required. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Store away from: Water. Unsuitable containers: aluminium. Storage vessels and pipework should not be made of copper.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

PNEC

Freshwater	11.09	mg/l
Marinewater	1.11	mg/l
Freshwater	Intermittent release	17.66
Sediment (Freshwater)	40.2	mg/kg
Sediment (Marinewater)	4.02	mg/kg
Soil	1.54	mg/kg
STP	800	mg/l

8.2. Exposure controls

Protective equipment



mg/l

Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

PVC or rubber gloves are recommended.

Eye protection

Wear approved safety goggles.

Other Protection

Wear rubber footwear. Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Sodium Bisulphate

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust
Colour	White.
Odour	Characteristic
Solubility	Hydrolyses.
Melting point (°C)	315
Relative density	1.4 - 1.5 kg/l
pH-Value, Conc. Solution	0.5 (12%)
pH-Value, Diluted Solution	3 1.2
Solubility Value (G/100G H2O@20°C)	108
Decomposition temperature (°C)	460
Partition Coefficient (N-Octanol/Water)	Kow -2.2

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with water.

10.5. Incompatible materials

Materials To Avoid

Strong alkalis. Strong oxidising substances. Inorganic nitrates. Chlorates.

10.6. Hazardous decomposition products

High temperatures generate: Sulphurous gases (SOx). Toxic and acidic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50) 2140 mg/kg Rat

Acute Toxicity (Inhalation LC50)

> 2400 Rat 4 hours

Eye contact

May cause severe irritation to eyes.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l	7960
EC 50, 48 Hrs, Daphnia, mg/l	1766
IC 50, 72 Hrs, Algae, mg/l	1900

12.2. Persistence and degradability

Sodium Bisulphate

12.3. Bioaccumulative potential

Partition coefficient

Kow -2.2

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Product is acidic, and will reduce the pH of water courses and drains, and cause damage to flora and fauna. It should not be allowed to enter controlled waters in large quantities - in such causes the National Rivers Authority should be contacted.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments Updated Section(s) 8, 9, 11, and 12, Issued By D.Kelly **Revision Date** 03/08/2015 Revision 2 Supersedes date 05/04/2013 **Risk Phrases In Full** R41 Risk of serious damage to eyes. Hazard Statements In Full H318 Causes serious eye damage.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.