


SAFETY DATA SHEET – Sodium bisulphate, powder (pH Reducer) 1KG,7KG & 25KG

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier	Sodium bisulphate, powder (pH Reducer) Substance name: sodium hydrogensulphate CAS No. 7681-38-1 EC No. 231-665-7
1.2 Relevant identified uses of the substance or mixture and uses advised against	Intended use: pH reducer for swimming pools
1.3 Details of the supplier of the SDS	A & R Products (South East) Ltd Europa House Pivington Mill Pluckley Kent TN27 0PG SDS compiler: mail@arproducts.co.uk
1.4 Emergency telephone number:	01233 841855 (Monday – Friday 9.00 – 17.00 hrs GMT)
SDS Issue 1:	18/04/2012

SECTION 2 HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture	Classification to CLP ((EC) No 1272/2008): Eye Irrit. Category 1; H318
see section 16 for full text of H-and R- phrases	Classification to DSD (67/548/EEC) and CHIP: Xi;R41
2.2 Label elements	Labelling in accordance with CLP ((EC) No 1272/2008)  DANGER
Note: <i>italicized items</i> (H and P Statements codes) are not included on label	<i>H318</i> Causes serious eye damage. <i>P280</i> Wear protective gloves/ protective clothing/ eye protection/ face protection. <i>P305 + P351 + P338</i> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>P310</i> Immediately call a POISON CENTER or doctor/ physician. Keep out of reach of children. If medical advice is needed, have product container or label at hand. <i>Hazardous components which must be listed on the label:</i> Sodium hydrogensulphate
2.3 Other hazards	No other information is available.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Ingredients:
see section 16 for full text of
classification phrases

Name	EC No.	CAS No.	Registration No.	Classification	%
Sodium hydrogensulphate	231-665-7	7681-38-1	not yet available	Eye Irrit. 1;H318	ca.100

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	<p>General advice : Take off all contaminated clothing immediately.</p> <p>In case of skin contact : Wash off immediately with soap and plenty of water.</p> <p>In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.</p> <p>If swallowed : Clean mouth with water and drink afterwards plenty of water.</p> <p>Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.</p>
4.2 Most important symptoms and effects, both acute and delayed	no further information available
4.3 Indication of immediate medical attention and special treatment needed, if necessary	<p>treat symptomatically</p> <p>no further information available</p>

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media	<p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> <p>Unsuitable – high volume water jet</p>
5.2 Specific hazards arising from the substance or mixture	Incomplete combustion may form toxic pyrolysis products.
5.3 Advice for fire-fighters	<p>In the event of fire, wear self-contained breathing apparatus.</p> <p>Wear personal protective equipment.</p> <p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</p>

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid contact with skin and eyes. For personal protection see section 8.
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3 Methods and material for containment and cleaning up	<p>Use mechanical handling equipment. Keep in suitable, closed containers for disposal.</p> <p>Further information : Treat recovered material as described in section 13.</p>
6.4 Reference to other sections	Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling	<p>Keep container tightly closed. Avoid contact with skin, eyes and clothing.</p> <p>Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.</p> <p>Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area.</p> <p>Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Provide adequate ventilation.</p> <p>Avoid contact with the skin and the eyes.</p>
7.2 Conditions for safe storage, including any incompatibilities	<p>Keep only in the original container. Keep tightly closed in a dry and cool place.</p> <p>Keep away from heat.</p> <p>Keep away from food, drink and animal feedingstuffs.</p>
7.3 Specific end use(s)	For pH reduction of swimming pools

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Control parameters	Contains no substances with occupational exposure limit values
8.2 Exposure controls	The glove material has to be impermeable and resistant to the product Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear. The following materials are suitable: PVC gloves. Rubber gloves. Eye protection: Tightly fitting safety goggles

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties – does not constitute a specification	
Appearance	white solid
Odour	none
Odour threshold	no data available
pH	0.5 (120 g/l)
Melting Point/Freezing point (°C)	no data available
Initial boiling point/boiling range (°C)	no data available
Flash Point (°C)(closed cup)	not applicable (non-flammable)
Evaporation rate	no data available
Flammability	not applicable (non-flammable)
Upper/lower flammability limits	not applicable (non-flammable)
Vapour pressure (mbar @ 20°C)	no data available
Vapour density	no data available
Relative Density (@15.5°C)	no data available
Solubility in water	soluble (decomposes)
Solubility in fat / solvent	not miscible
Partition coefficient (log Pow)	no data available
Autoignition temperature (°C)	not applicable (non-flammable)
Decomposition temperature	no data available
Viscosity (mPa.s @ 20°C)	not applicable (solid)
Explosive properties	not explosive
Oxidising properties	none
9.2 Other information	None

SECTION 10 STABILITY AND REACTIVITY	
10.1 Reactivity	No advice.
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	Avoid high temperatures and moisture
10.5 Incompatible materials	Strong bases, Oxidizing agents, bleaching agent, Chlorates, nitrates
10.6 Hazardous decomposition products	Sulphur oxides Heating may cause toxic fumes

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Corrosivity/Irritation
-eye

Risk of serious damage to eyes.

Sensitisation -skin

No sensitizing effects known

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	This product has no known eco-toxicological effects
12.2 Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances
12.3 Bioaccumulative potential	Bioaccumulation is not expected
12.4 Mobility in soil	The product is mobile in water environment.
12.5 Results of PBT and vPvB assessment	No known PBT or vPvB chemicals present
12.6 Other adverse effects	Do not flush into surface water or sanitary sewer system.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Residue:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. European Waste Code: No waste code according to the European Waste Catalogue assigned for this product. The waste code is established in consultation with the regional waste disposer.
Packaging:	Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous goods for carriage under ADR/RID/ADN/IMDG/ICAO/IATA regulations

14.1 UN Number	Not applicable
14.2 UN Proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

SECTION 15 REGULATORY INFORMATION

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

Supply regulations: Classified as hazardous under DSD/GHS/CLP criteria (DSD: Dangerous Substances Directive; GHS: Globally Harmonised system of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations)
Transport regulations: Not classified as Dangerous Goods for Carriage under ADR/RID/IMDG/ICAO/IATA regulations

15.2 Chemical Safety Assessment

No formal chemical safety assessment has been carried out

SECTION 16 OTHER INFORMATION

Full text of classification data in sections 2 and 3

Eye Irrit 1; H318 Causes serious eye damage

Xi;R41 Risk of serious damage to eyes

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text