

SAFETY DATA SHEET SODIUM HYDROGENSULPHATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name SODIUM HYDROGENSULPHATE

Product number 1386

Synonyms; trade names SODIUM BISULPHATE, DRY ACID, pH MINUS, SODIUM ACETATE SULPHATE, POOL

ACID, pH REDUCER, BRISWIM DRY ACID, BRISWIM SPA FILTER CLEAN, BRISWIM SPA PH REDUCER, POOL PHA, SODIUM BISULFATE, ANHYDROUS, TECHNICAL GRADE,

SODIUM BISULFATE GRAN, SOD BISULPHATE DNX

REACH registration number 01-2119552465-36-XXXX

CAS number 7681-38-1

EU index number 016-046-00-X

EC number 231-665-7

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

Identified uses Cleaning agent. pH control

Uses advised against Food industry

1.3. Details of the supplier of the safety data sheet

Supplier

Univar

Aquarius House

6 Mid Point Business Park

Bradford BD3 7AY

+44 1274 267300 sds@univar.com +44 1274 267306

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 1386

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

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Classification (67/548/EEC or Xi; R41

1999/45/EC)

2.2. Label elements

EC number 231-665-7

Pictogram



Signal word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye 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.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name SODIUM HYDROGENSULPHATE

REACH registration number 01-2119552465-36-XXXX

EU index number 016-046-00-X

CAS number 7681-38-1 **EC number** 231-665-7

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

Ingestion Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce

vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to

rinse for at least 15 minutes. Get medical attention.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue

to rinse.

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

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact Causes serious eye damage.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Oxides of the following substances: Sulphur.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate

ventilation. Avoid inhalation of dust. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled

discharges into watercourses must be reported immediately to the Environmental Agency or

other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Label the

containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Collect and place in suitable waste

disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid spilling. Avoid inhalation of dust and contact with skin and

eves.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Chemical storage.

7.3. Specific end use(s)

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

Ingredient comments No exposure limits known for ingredient(s).

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PNEC - Fresh water; 11.09 mg/l

Marine water; 1.109 mg/lIntermittent release; 17.66 mg/l

Sediment (Freshwater); 40.2 mg/kg/daySediment (Marinewater); 4.02 mg/kg/day

Soil; 1.54 mg/kg/daySTP; 800 mg/l

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Rubber (natural, latex). Chloroprene rubber. Butyl rubber. Polyvinyl chloride (PVC). glove thickness

0.5mm EN 374

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination. Wear

rubber apron. Wear rubber footwear.

Hygiene measures Provide eyewash station. Avoid inhalation of dust and vapours. Avoid contact with skin and

eyes. Take off contaminated clothing. Eye wash facilities and emergency shower must be available when handling this product. Wash at the end of each work shift and before eating,

smoking and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type

P1. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Crystalline powder. Dusty powder. Solid

Colour White/off-white.

Odour Pungent.

Odour threshold No information available.

pH (diluted solution): < 1 @ 5%

Melting point 177 - 315°C

Initial boiling point and range No information available.

Flash point No information available.

Evaporation rate No information available.

Evaporation factor No information available.

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Flammability (solid, gas) No information available.

Upper/lower flammability or

explosive limits

No information available.

Other flammability No information available. Vapour pressure No information available. Vapour density No information available.

Relative density 1.28 - 1.50

Bulk density No information available.

Solubility(ies) Miscible with water.

Partition coefficient No information available.

No information available. Auto-ignition temperature

Decomposition Temperature 460°C

No information available. Viscosity **Explosive properties** No information available. Explosive under the influence No information available.

of a flame

No information available. Oxidising properties

9.2. Other information

Other information Not available.

Refractive index No information available. Particle size No information available.

Molecular weight 120.06 g/mol

Volatility No information available.

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid Water, moisture. Keep away from heat, sparks and open flame.

10.5. Incompatible materials

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Materials to avoid Water-reactive materials. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion products may include the following substances:

products Sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD50

2,490.0

mg/kg)

Species Rat

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation No information available. Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Negative. Ames test

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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

Inhalation Irritating to respiratory system.

Ingestion May cause stomach pain or vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Risk of serious damage to eyes.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

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Toxicity Not considered toxic to fish.

Acute toxicity - fish LC₅o, 96 hours: 7960 mg/l, Pimephales promelas (Fat-head Minnow)

Read-across data.

Acute toxicity - aquatic

LC₅₀, 48 hours: 1766 mg/l, Daphnia magna

invertebrates

Read-across data.

12.2. Persistence and degradability

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil

Partition coefficient

Mobility The product contains volatile organic compounds (VOCs) which have a photochemical ozone

creation potential.

No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Aqueous solutions are acidic.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

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No information required.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to No information required. **Annex II of MARPOL 73/78**

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC₅₀: 50% of maximal Effective Concentration.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration. DMEL: Derived Minimal Effect Level.

EL50: Exposure Limit 50

hPa: Hectopascal

LL50: Lethal Loading fifty

OECD: Organisation for Economic Co-operation and Development

POW: Octanol-water partition coefficient SCBA: self-contained breathing apparatus

STP: Sewage Treatment Plant

VOC: Volatile Organic Compounds

Classification abbreviations

Acute Tox. = Acute toxicity

and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and

sources for data

Supplier's information.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 11/08/2017

Revision 04

Supersedes date 31/07/2017

SDS number 1386

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Version number 3.001

SDS status Approved.
Signature Lisa Bland

Risk phrases in full R41 Risk of serious damage to eyes.

Hazard statements in full H318 Causes serious eye damage.