

pH Minus

dentification of the substa	nce/preparation and of the company/undertaking
1.1 Product Identifier	Sodium Hydrogen Sulfate
Trade Name:	pH Minus
Other Names:	Sodium Bisulphate, Dry Acid
Reach Registration N	
1.2 Relevant Identified u	ses of the substance or mixture and uses advised against
Uses:	Swimming Pool water treatments
1.3 Details of the supplie Company:	r of the safety data sheet Maclin Sourcing Solutions Ltd
company.	Unit A3 Risby
	Business Park
	Newmarket Road
	Risby
	Suffolk
	IP28 6RD
Telepl	none: +44 (0) 1284 810887
E-mail:	info@maclingroup.co.uk
1.4 Emergency Telephone	

2. Hazard Identification

	2.1 Classification of the substand Classification according to Re Hazard Class Eye Dam .1 For the full text of the H state	egulation (EC		
	Most important adverse effe Human Health: Physical & Chemical Hazards Potential environmental effe	:	See section 11 for toxicilogical information See section 9 for physicochemical information See section 12 for environmental information	
	2.2 Label elements			
	Labelling according to Regula	ation (EC) N	o 1272/2008	
	Hazard symbols:			
	Signal word:	Danger		
	Hazard statements:	H318:	Causes serious eye damage	
	Precautionary statements: P30		Keep out of the reach of children Wear protective gloves/protective clothing/eye protection/face protection : IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing If exposed or concerned: Immediately call a POISON CENTRE or doctor/physician Store locked up Dispose of contents / container to an approved waste disposal plant	
Hazardous components which must be listed on the label Sodium Hydrogen Sulfate				
	2.3 Other Hazards		PBT and vPvB assessment not required (inorganic)	

Trade Name: pH Minus	
3. Composition/information on ing	redients
3.1 Substance	
Chemical Name	CAS-No. EC-No. Index-No. % CLP Classification
Sodium Hydrogen Sulfate Full text of H- and EUH-phr	7681-38-1 231-665-7 16-046-00-X 93 - 100% H318 rases: see section 16.
3.2 Mixtures Not applic	able
4. First Aid measures	
4.1 Description of first aid mea	
General Advice:	Take off all contaminated clothing immediately.
If Inhaled:	Move to Fresh air. Call a physician immediately
In case of skin contact:	Wash off immediately with plenty of soap & water. If irritation persists seek medical advice
In case of eye contact:	Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Call a physician immediately.
If swallowed:	Do NOT induce vomiting. Drink plenty of water. Consult a physician.
Additional Information:	IF exposed or concerned: Get medical advice/attention If medical advice is needed, have product container or label at hand
4.2 Most important symptoms	s and effects, both acute and delayed
Inhalation:	May cause irritation of respiratory tract. Inhalation may provoke the following symptoms:
Skin contact	Shortness of breath, cough, dry/sore throat. May be irritating. Skin contact may provoke the following symptoms: Redness, pain, blisters.
Eye contact	Causes serious eye damage. Eye contact may provoke the following symptoms: Redness, pain. Ingestion may cause irritation to mucous membranes. Ingestion may provoke the following
Ingestion	symptoms: Abdominal pain, burning sensation.
4.3 Indication of immediate m	edical attention and special treatment needed
Treatment	No further information available
5. Fire fighting measures	
5.1 Extinguishing media:	
Suitable media: Unsuitable media:	Use dry chemical, CO2, water spray or alcohol resistant foam. High volume water jet

	Unsuitable media:	High volume water jet
5.2	Special hazards arising from Fire Hazard	the substance or mixture Non-flammable substance
	Specific Hazards e:	Burning produces noxious and toxic fumes. Sox, NaOx Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The pressure in sealed containers can increase under the influence of heat. Vapours may form explosive mixture with air Vapours are heavier than air and may spread along the floor.
5.3	Advice for fire-fighters	In the event of fire, wear self-contained breathing apparatus. In the event of fire, cool tanks with

Advice for fire-fighters water spray

Trade Name: pH	Minus
6. Accidental release Measu	ires
6.1 Personal precaution	ns, protective equipment and emergency procedures
Personal precaution	ns: Wear protective clothing as per Section 8
	Evacuate the area and keep personnel upwind
	Avoid breathing gas / mist / fumes. Avoid contact with skin and eyes
	Eye wash bottles should be available
6.2 Environmental prec	cautions
Environmental prec	autions Do not allow to enter public sewers and watercourses
6.3 Methods and mate	rials for containment and cleaning up
Cleaning up	Prevent further leakage or spillage if safe to do so. Sweep up
	Place in sealed and labelled appropriates containers. Remove contaminated material to safe location for subsequent disposal. Local authorities should be advised if significant spillages cannot be contained
6.4 Reference to other	sections
Other sections	For personal protection see Section 8
	For disposal considerations see Section 13

7. Handling and storage	
7.1 Precautions for safe handlin	ng
Advice on safe handling:	Storage and handling must take place in conformity with national laws: GO70STORA025. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before re-use. Keep working clothes separately.
7.2 Conditions for safe storage	, including any incompatibilities.
Storage areas:	Store in dry, cool, well-ventilated area. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep container closed and dry. Keep away from open flames, hot surfaces and sources of ignition
7.3 Specific end uses	No information available

8. Exposure control/personal protection

8.1 Control parameters Exposure Limits

No information available

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

8. Exposure control/personal protection

3.2 Exposure controls Personal protective equipment The type of protective equipment must be selected according to the concentration and amount of the dangerous substance a the specific workplace.		
Respiratory protection	Respirator with a full face mask (EN136). Recommended Filter type: ABEK/P2 (EN141). Wear self- contained breathing apparatus when entering area unless atmosphere is proved to be safe (EN138/269 - EN137 - EN139).	
Hand protection	Rubber gloves (EN 374): PVC. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.	
Eye protection	Tightly fitting safety goggles (EN166)	
Skin and body protection	Chemical-resistant overalls.	
Thermal hazard protection:	Not required under normal use. Use dedicated equipment.	
Engineering measures	Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Eye wash bottle with pure water. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.	
Environmental exposure cor General advice:	ntrols Do not flush into surface water or sanitary sewer systems. Avoid subsoil penetration.	

9. Physical and chemical properties

Form:	Crystals, granular
Colour:	White, light yellow
Odour:	none
pH @ 20 [°] C:	1.3
Melting point:	315 C
Boiling point:	Not known
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not applicable
Explosion limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1,4 - 1,5 kg/l
Water solubility:	ca 1080 g/l 2 @ 25 C
Solubility in other solvents	Not applicable
Partition coeffcient:n-octanol/water:	-2,2 (KOWWIN
Autoignition temperature	Not applicable
Thermal decomposition:	460 [°] C
Explosive properties:	Not applicable
2 Other Information	No further information available

10. Stab	pility and reactivity	
10.1	Reactivity	
10.1	Reactivity	
	Reactivity	See also section 10.5
10.2	Chemical stability	
	Chemical stability	Hydroscopic
40.0		
10.3	Possibility of hazardous read	
	Hazardous reactions:	Acidic aqueous solution. Gives off hydrogen by reaction with metals.
10.4	Conditions to avoid	
_	Conditions to avoid	Avoid dust formation, moisture and heat. See also Section 7
10.5	Incompatible materials	
	Materials to avoid	Hydrolyses in presence of: Water, acidic aqueous solution. Gives off hydrogen by reaction with
		metals. See also section 7
10.6	Hazardaus dasamnasitian n	reducts
10.6	Hazardous decomposition p	
	Haz. decomp. products:	Possible decomposition products are: Acidic aqueous solution. Gives off hydrogen by reaction with metals. Vapours may form explosive mixture with air.
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11. Toxicilogical Information

11.1 Information on toxicilogical effects

Acute toxicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Sodium hydrogensulphate (7681-38-1)			
LD50	oral - rat	2140 mg/kg	sulfuric acid
LC50	inhalation/4h - rat	> 2400 mg/m ³	sodium sulphate

Skin corrosion/irritation	Not classified (Not classified due to data which are conclusive although insufficient for classification.) pH: 1,3
Serious eye damage/irritation	Causes serious eye damage. pH: 1,3 Not classified (Not classified due to data which are conclusive although
Respiratory or skin sensitisation	insufficient for classification.)
Germ cell mutagenicity	Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Carcinogenicity	Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Reproductive toxicity	Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Specific target organ toxicity (single exposure)	Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Specific target organ toxicity (repeated exposure)	Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Aspiration hazard	Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Further information

Watery solution: same properties as H2SO4. Fine granules, crystals or powder. Fine substance that can cause the irritation of the airways, with coughing and the contraction of the airways. In contact with water the product forms sulphuric acid that can cause burns.

pH Minus

12. Ecological Information

Etoxicity effects		Toxic to aquatc organisms				
Sodium hydroge	ensulphate (7	7681-38-1)				
LC50	96h	fish	7960	mg l		
EC50	48h	daphnia	1766	mg/l		
IC50	72h	algae	1900	mg/l		
2.3 Bioaccumlative potential Bioaccumlative potential Partition coefficient:		Low bioaccumulation potential n-octanol/water -2,2 (KOWWIN)				
	-		-			
	-		ater -2,2 (K			
Partition coeffic	ient:	n-octanol/w Highly mobil	ater -2,2 (K			
Partition coeffic 12.4 Mobility in soil Mobility in soil	ient:	n-octanol/w Highly mobil	ater -2,2 (K	OWWIN)		
Partition coeffic L2.4 Mobility in soil Mobility in soil L2.5 Results of PBT a	ient: and PvB asse	n-octanol/w Highly mobil ssment	ater -2,2 (K	OWWIN)		

13. Disposal Considerations

13.1 Waste treatment methods	
Product:	Disposal together with normal waste is not allowed. Handle with care. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging:	Dispose of in accordance with local regulations
European Waste Catalogue No:	Classified as hazardous waste according to European Union regulation. (06 03 03) Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

14.1 Transport class:

This product does not require a classification for transport.

15. Regulatory information

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

15.1.1 EU- Regulations

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

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

15.1.1 EU- Regulations

TSCA (US): OK AICS (Australia): OK DSL (Canada): OK ENCS (Japan): OK ECL (Korea): OK PICCS (Philipines): OK Authorisations/Restrictions on use : Not applicable.

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : None.

15. Regulatory information

15.1.2 National Regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4) 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen –Vruchtbaarheid :None of the components are listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen –Ontwikkeling : None of the components are listed

15.2 Chemical Safety Assessment

A chemical safety assessment has been caried out for this substance

16. Other information

Full text of H-statements referred to under sections 2 and 3H318Causes serious eye damage

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section