

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

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

1.1. Product identifier

Commercial Product Name : SODIUM HYDROGEN SULFATE
EC Index : 016-046-00-X
EC No : 231-665-7
CAS No. : 7681-38-1
REACH Registration Number : 01-2119552465-36-0003

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

Main use category : Industrial use,
Specific use(s) : Water treatment chemical,
Chemical plating of metals,
Food,
See chapter Exposure scenario.

1.3. Details of the supplier of the safety data sheet

Company : PVS Chemicals Belgium n.v.
Panterschipstraat 80
9000 -Gent , BELGIUM
Tel. +32 (0)9 257 77 00
Fax: +32 (0)9 257 77 25
E-mail address: reach@pvs.be

1.4. Emergency telephone number

Emergency telephone : +32 (0)9 257 77 00 (24/24 hrs)

UNITED KINGDOM
National Poisons Information Service
(Birmingham Centre) 0870 600 6266 (UK only)
City Hospital

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008/EC

CLP-Classification : The product is classified as hazardous in accordance with Directive 1272/2008/EEC.

Eye Dam. 1 H318

Full text of H-phrases: see section 16.

2.1.2. Classification according to EU Directives 67/548/EC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

Xi; R41

Full text of R-phrases: see section 16.



תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

- Ingestion : Do NOT induce vomiting.
Drink plenty of water.
Consult a physician.
- Additional advice : First aider needs to protect himself.
See also section 8.
Never give anything by mouth to an unconscious person.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
When symptoms persist or in all cases of doubt seek medical advice.

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

- Inhalation : May cause irritation of respiratory tract. Inhalation may provoke the following symptoms: Shortness of breath, cough, dry/sore throat.
- Skin contact : 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 : Ingestion may cause irritation to mucous membranes. Ingestion may provoke the following symptoms: Abdominal pain, burning sensation.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use dry chemical, CO2, water spray or alcohol resistant foam.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Fire Hazard : Non flammable.
- Specific hazards : 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 floors.

5.3. Advice for firefighters

- Advice for firefighters : Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus. In the event of fire, cool tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Advice for non-emergency personnel : Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Wear personal protective equipment. See also section 8. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.
- Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008/EC

CLP pictograms



GHS05

- Signal word : Danger
- Hazard statements (CLP) : H318 - Causes serious eye damage.
- Precautionary statements (CLP) : P280 - Wear protective gloves/ protective clothing/ eye protection/ face 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 or doctor/ physician.
P501 - Dispose of contents/ container to an approved waste disposal plant.

2.2.2. Labelling according to Directives (67/548/EC - 1999/45/EC)

Not relevant

2.3. Other hazards

- Other hazards which do not result in classification : Results of PBT and vPvB assessment: Not required (inorganic)

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Sodium hydrogensulphate	(CAS No.) 7681-35-1 (EC No) 231-685-7 (EC Index) 016-046-00-X	>= 92	Xn, H41
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydrogensulphate	(CAS No.) 7681-35-1 (EC No) 231-685-7 (EC Index) 016-046-00-X	>= 92	Eye Dam. 1, H318

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Move to fresh air.
Call a physician immediately.
- Skin contact : Take off all contaminated clothing immediately.
Wash off with soap and water.
If skin irritation persists, call a physician.
- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Call a physician immediately.



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

PNEC sewage treatment plant : 800 mg/l

8.2. Exposure controls

Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment. 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 (EN 166).
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 controls	: Do not flush into surface water or sanitary sewer system. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: crystals, granular
Colour	: white, light yellow
Odour	: none
pH	: 1,3
Melting point/range	: 315 °C
Boiling point/boiling range	: not applicable
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 @ 25°C
Solubility in other solvents	: not applicable
Partition coefficient: n-octanol/water	: -2,2 (KOWWIN)
Autoignition temperature	: not applicable
Decomposition temperature	: 460 °C



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

6.2. Environmental precautions

Environmental precautions : Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations. Local authorities should be advised if significant spillages cannot be contained.

6.4. Reference to other sections

See also section 8. See also section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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 : Store in dry, cool, well-ventilated area. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep container tightly closed and dry. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	: No data available
PNEC (water)	
PNEC aqua (freshwater)	: 11,09 mg/l
PNEC aqua (marine water)	: 1,11 mg/l
PNEC aqua (intermittent, freshwater)	: 17,66 mg/l
PNEC (sediment)	
PNEC sediment (zoetwater)	: 40,2 mg/kg dwt
PNEC sediment (marine water)	: 4,02 mg/kg dwt
PNEC (soil)	
PNEC soil	: 1,54 mg/kg dwt
PNEC (STP)	



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SAFETY DATA SHEET

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תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Respiratory or skin sensitisation	: Not classified (Not classified due to data which are conclusive although 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.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects : Toxic to aquatic organisms.

Component	Sodium hydrogensulphate (7681-38-1)
LC50/96h/fish	7960 mg/l
EC50/48h/daphnia	1766 mg/l
IC50/72h/algae	1900 mg/l

12.2. Persistence and degradability

Persistence and degradability : Hydrolysis in water

12.3. Bioaccumulative potential

Bioaccumulation : Low potential
Partition coefficient: n-octanol/water : -2,2 (KOWWIN)

12.4. Mobility in soil

Mobility : Highly mobile in soils

12.5. Results of PBT and vPvB assessment

PBT/vPvB : Results of PBT and vPvB assessment: Not required (inorganic)

12.6. Other adverse effects

Further information : no data available



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יבואנים ויצרנים כלי איכות וציוד ייחודיים

SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

Viscosity	: not applicable
Explosive properties	: not applicable
Oxidizing properties	: not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : See also section 10.5

10.2. Chemical stability

Stability : Hygroscopic

10.3. Possibility of hazardous reactions

Hazardous reactions : Acidic aqueous solution. Gives off hydrogen by reaction with metals.

10.4. Conditions to avoid

Conditions to avoid : Avoid dust formation. Avoid moisture, heat. See also section 7: Handling and storage.

10.5. Incompatible materials

Incompatible materials : Hydrolyses in presence of: Water, acidic aqueous solution. Gives off hydrogen by reaction with metals. See also section 7: Handling and storage.

10.6. Hazardous decomposition products

Hazardous decomposition products : Possible decomposition products are: Acidic aqueous solution. Gives off hydrogen by reaction with metals. Vapours may form explosive mixture with air.

SECTION 11: Toxicological information

11.1. Information on toxicological 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/m³ 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



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Prevent product from entering drains. Handle with care. See also section 7. Collect and dispose of waste product at an authorised disposal facility. Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations (06 03 03). Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

TSCA (US): OK AICS (Australia): OK DSL (Canada): OK ENCS (Japan): OK ECL (Korea): OK PICCS (Philippines): 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.

15.1.2. National regulations

WGK : 1

15.2. Chemical safety assessment

Chemical Safety Assessment : A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases

Eye Dam. 1 : Serious eye damage/eye irritation Category 1
H318 : Causes serious eye damage.
R41 : Risk of serious damage to eyes.

Sources of key data used to compile the datasheet : <http://ecb.jrc.it>

Safety datasheet sections which have been updated: : 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16

Abbreviations and acronyms : WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
vPvB = very persistent and very bioaccumulating persistent, bioaccumulating and toxic (PBT).
ADNR = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)



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Item code: 752010 - 752011 - 752005 - 752025 - 752012

Exposure scenario 1

Manufacture and use of the substance as such or in preparation in industrial settings

1. Exposure scenario	
Title	Manufacture and use of the substance as such or in preparation in industrial settings
Sector of use	SU2a - Mining, (without offshore industries) SU2b - Offshore industries SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU4 - Manufacture of food products SU5 - Manufacture of textiles, leather, fur SU6b - Manufacture of pulp, paper and paper products SU7 - Printing and reproduction of recorded media SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals SU 10 - Formulation [mixing] of preparations and/ or re-packaging (excluding alloys) SU11 - Manufacture of rubber products SU13 - Manufacture of other non-metallic mineral products, e.g. plasters, cement SU15 - Manufacture of fabricated metal products, except machinery and equipment SU16 - Manufacture of computer, electronic and optical products, electrical equipment SU17 - General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment SU19 - Building and construction work SU20 - Health services SU23 - Electricity, steam, gas water supply and sewage treatment
Process category	PROC1 - Use in closed process, no likelihood of exposure PROC2 - Use in closed, continuous process with occasional controlled exposure PROC3 - Use in closed batch process (synthesis or formulation) PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC7 - Industrial spraying PROC8a - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 - Roller application or brushing PROC12 - Use of blowing agents in manufacture of foam PROC13 - Treatment of articles by dipping and pouring PROC14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15 - Use as laboratory reagent PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected PROC17 - Lubrication at high energy conditions and in partly open process PROC18 - Greasing at high energy conditions PROC19 - Hand-mixing with intimate contact and only PPE available
Product category	PC1 - Adhesives, sealants PC14 - Metal surface treatment products, including galvanic and electroplating products PC15 - Non-metal-surface treatment products PC19 - Intermediate PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents PC21 - Laboratory chemicals PC25 - Metal working fluids PC35 - Washing and cleaning products (including solvent based products) PC36 - Water softeners PC37 - Water treatment chemicals
Article category	
Environmental release category	ERC1 - Manufacture of substances ERC2 - Formulation of preparations

Sodium hydrogensulfate
7681-38-1 / 231-548-0

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Number	Short description of exposure scenario	Product category	Life cycle stage covered by the ES					Sector of use	Process category	Article category	Service life for articles.	Environmental release category
			Manufacture	Formulation	End Use							
					Industrial use	Professional use	Consumer use					
1	Manufacture and use of the substance as such or in preparation in industrial settings	14, 15, 19, 20, 21, 25, 35, 36, 37	X	X	X	X	-	2a,2b, 3, 4, 5, 6b, 7, 8, 9, 10, 11, 13, 15, 16, 17, 19, 20, 23	1, 2, 3, 4,5,7, 8a, 8b, 9, 10, 12, 13, 14, 15, 17, 19, 21, 24	-	-	1, 2, 3, 4, 5, 6, 7, 12
2	Use of the substance as such or in preparation in professional settings	14, 15, 20, 35, 37	-	X	X	X	-	22	2,3,4,5,8a,8b,9, 10,11,12,13,14, 15,17,19,21,24	-	-	8, 9, 10, 11
3	Consumer use of cleaning products	35	-	-	-	-	X	21	-	-	-	8
4	Consumer use of the substance as pH-regulator for swimming pools	20, 37	-	-	-	-	X	21	-	-	-	8



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Sodium hydrogensulfate
7681-38-1 / 231-548-0

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Level of separation	PROC 7: Any potentially required separation of workers from the emission source is indicated above under "Frequency and duration of exposure". A reduction of exposure duration can be achieved, for example, by the installation of ventilated (positive pressure) control rooms or by removing the worker from workplaces involved with relevant exposure. All other applicable PROCs: Separation of workers from the emission source is generally not required in the conducted processes.
Organisational measures to prevent /limit releases, dispersion and exposure	
Good work practice	Avoid inhalation, ingestion and contact with skin and eyes. Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice. Workers wear protective clothing. Change working clothes after each work shift. Shower or bathe at the end of working. Do not smoke. When using do not eat or drink. Do not blow dust off with compressed air.
Conditions and measures related to personal protection, hygiene and health evaluation	
All applicable PROCs :	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask.: EN 143, EN 149, FFP2 Effectiveness : APF : 10
Gloves	Wear as appropriate: Protective gloves (EN 374) Protective gloves against thermal risks Protective gloves against mechanical risks
Eye/face protection	Yes Goggles (EN 166)
Safety shoes	Wear as appropriate
Skin and body protection	Wear as appropriate
2.2. Control of environmental exposure	
Product characteristics	
Not relevant	
Frequency and duration of use	
Annual operating days	Continuous use/release
Amount used	Not relevant
Environmental factors not influenced by risk management	
Flow rate of receiving surface water: 18.000 m³/day	
Other given operational conditions affecting environmental exposure	
During the industrial use of the substance, it is assumed that a substantial fraction of the substance reacts/oxidizes during the process (e.g., bleaching, use in paper/textile/photographic industry). A minimum fraction of 93% (receiving water: freshwater) and 84% (receiving water: marine environment) is taken forward in the ES when on-site OR municipal treatment is available. When treated in on-site AND consequently in municipal treatment, there is no need to take oxidation during the industrial use into account.	
Technical conditions and measures at process level to prevent release	
Not specified	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	
Risk management measures related to the environment aim to avoid discharging NaHSO4 solutions into municipal wastewater or to surface water, in case such discharges are expected to cause significant pH changes regular control of the pH value during introduction into open waters is required. In general discharges should be carried out such that pH changes in receiving surface waters are minimised (e.g. through neutralisation). In general most aquatic organisms can tolerate pH values in the range of 6-9. This is also reflected in the description of standard OECD tests with aquatic organisms. Neutralisation of waste waters and effluent should be widespread (often it is also required by national legislation).	
Organizational measures to prevent/limit release from the site	
Not relevant	
Conditions and measures related to waste	
Solid industrial waste of NaHSO4 should be reused or discharged to the industrial wastewater and further neutralized if needed.	
3. Exposure estimation and reference to its source	
3.1. Health	
Inhalation exposure	The exposure estimation tool MEASE was used for the assessment of inhalation exposure.
Dermal exposure	Not relevant
3.2. Environment	
The release to water is calculated based upon the default ERC release factors from the ECHA guidance.	
The exposure estimation tool EUSES was used for the assessment of the local environmental concentrations.	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	



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בואנים ויצרנים כלי איכות וציוד ייחודים

SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

Sodium hydrogensulfate
7681-38-1 / 231-548-0

PVS Chemicals Belgium N.V.
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	ERC3 - Formulation in materials ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles ERC5 - Industrial use resulting in inclusion into or onto a matrix ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b - Industrial use of reactive processing aids ERC6c - Industrial use of monomers for manufacture of thermoplastics ERC6d - Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers ERC7 - Industrial use of substances in closed systems ERC12a - Industrial processing of articles with abrasive techniques (low release) ERC12b - Industrial processing of articles with abrasive techniques (high release)
Processes, tasks, activities covered	Manufacture and use of the substance as such or in preparation in industrial settings
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
Frequency and duration of use	
Use amount per worker per day	The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation (industrial vs. professional) and level of containment/automation (as reflected in the PROC) is the main determinant of the process intrinsic emission potential.
Exposure duration per day	60 min (Due to high level of automatisisation and measures at the process level (please see below), inhalation exposure is negligible and the exposure duration is consequently short.) : PROC 7
	Not restricted: All applicable PROCs
Frequency of exposure	Not specified
Product characteristics	
Emission potential	PROC 7: medium PROC 21, 24: low - high All other applicable PROCs: very low - low
Physical Form (at time of use)	PROC 7: powder PROC 21,24: Dust All other applicable PROCs: granular
Vapour pressure	Not relevant
Dustiness	1% as obtained in rotating drum testing
Concentration of the Substance in Mixture/Article	Not restricted (All applicable PROCs)
Amount used	The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation (industrial vs. professional) and level of containment/automation (as reflected in the PROC) is the main determinant of the process intrinsic emission potential.
Human factors not influenced by risk management	
Breathing volume	10 m³/day
Dermal exposure	Not relevant
Other operational conditions affecting workers exposure	
Outdoor use / Indoor use	Not relevant
Process conditions: Pressure	Not relevant
Process temperature	Not relevant
Room size	Not relevant
Ventilation rate per hour	Not relevant
Technical conditions and measures at process level to prevent release	
Containment	PROC 1, 2, 3, 7: closed process All other applicable PROCs: not required
Segregation	PROC 1, 2, 3: not required PROC 7: Spraying of sodium hydrogen sulfate in a segregated spray tower where direct exposure of the worker is excluded. All other applicable PROCs: not required
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	All other applicable PROCs: Effectiveness : 78 %



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תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Exposure scenario 2

Use of the substance as such or in preparation in professional settings

1. Exposure scenario	
Title	Use of the substance as such or in preparation in professional settings
Sector of use	SU 22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process category	PROC2 - Use in closed, continuous process with occasional controlled exposure PROC3 - Use in closed batch process (synthesis or formulation) PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC8a - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10 - Roller application or brushing PROC11 - Non industrial spraying PROC12 - Use of blowing agents in manufacture of foam PROC13 - Treatment of articles by dipping and pouring PROC14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15 - Use as laboratory reagent PROC17 - Lubrication at high energy conditions and in partly open process PROC19 - Hand-mixing with intimate contact and only PPE available PROC21 - Low energy manipulation of substances bound in materials and/ or articles PROC24 - High (mechanical) energy work-up of substances bound in materials and/ or articles
Product category	PC14 - Metal surface treatment products, including galvanic and electroplating products PC15 - Non-metal-surface treatment products PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents PC35 - Washing and cleaning products (including solvent based products) PC37 - Water treatment chemicals
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8b - Wide dispersive indoor use of reactive substances in open systems ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d - Wide dispersive outdoor use of processing aids in open systems ERC8e - Wide dispersive outdoor use of reactive substances in open systems ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a - Wide dispersive indoor use of substances in closed systems ERC9b - Wide dispersive outdoor use of substances in closed systems ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release ERC10b - Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) ERC11a - Wide dispersive indoor use of long-life articles and materials with low release ERC11b - Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
Processes, tasks, activities covered	Use of the substance as such or in preparation in professional settings
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
Frequency and duration of use	
Use amount per worker per day	The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation (industrial vs. professional) and level of containment/automation (as reflected in the PROC) is the main determinant of the process intrinsic emission potential.

Sodium hydrogensulfate
7681-38-1 / 231-548-0

PVS Chemicals Belgium N.V.
GENT - BELGIUM

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
DNEL	Inhalation: 10 mg/m3
Due to the negligible dermal absorption of sodium hydrogen sulfate, the dermal route is not a relevant exposure path for sodium hydrogen sulfate and a dermal DNEL has not been derived. Thus, dermal exposure is not assessed in this exposure scenario.	
4.2. Environment	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Safety shoes	Wear as appropriate
Skin and body protection	Wear as appropriate
2.2. Control of environmental exposure	
Product characteristics	
Not relevant	
Frequency and duration of use	
Annual operating days	Continuous use/release
Amount used	Not relevant
Environmental factors not influenced by risk management	
Flow rate of receiving surface water: 18.000 m³/day	
Other given operational conditions affecting environmental exposure	
Effluent (of the waste water treatment plant) discharge rate: 2000 m³/d	
Technical conditions and measures at process level to prevent release	
Not specified	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	
Discharge to an on-site wastewater treatment plant or to a municipal sewage treatment plant is assumed.	
Organizational measures to prevent/limit release from the site	
Not relevant	
Conditions and measures related to waste	
Not relevant	
3. Exposure estimation and reference to its source	
3.1. Health	
Inhalation exposure	The exposure estimation tool MEASE was used for the assessment of inhalation exposure.
Dermal exposure	Not relevant
3.2. Environment	
The release to water is calculated based upon the default ERC release factors from the ECHA guidance.	
The exposure estimation tool EUSES was used for the assessment of the local environmental concentrations.	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.	
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
DNEL	Inhalation: 10 mg/m3
Due to the negligible dermal absorption of sodium hydrogen sulfate, the dermal route is not a relevant exposure path for sodium hydrogen sulfate and a dermal DNEL has not been derived. Thus, dermal exposure is not assessed in this exposure scenario.	
4.2. Environment	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	



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יבואנים ויצרנים כלי איכות וציוד ייחודים

SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

Exposure duration per day	60 min (Due to high level of automatization and measures at the process level (please see below), inhalation exposure is negligible and the exposure duration is consequently short.) : PROC 7 Not restricted: All other applicable PROCs
Frequency of exposure	Not specified
Product characteristics	
Emission potential	PROC 7: medium PROC 21, 24: low - high All other applicable PROCs: very low - low
Physical Form (at time of use)	PROC 7: powder PROC 21,24: Dust All other applicable PROCs: granules
Vapour pressure	Not relevant
Dustiness	1% as obtained in rotating drum testing
Concentration of the Substance in Mixture/Article	Not restricted (All applicable PROCs)
Amount used	The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation (industrial vs. professional) and level of containment/automation (as reflected in the PROC) is the main determinant of the process intrinsic emission potential.
Human factors not influenced by risk management	
Breathing volume	10 m³/d
Dermal exposure	Not relevant
Other operational conditions affecting workers exposure	
Outdoor use / Indoor use	Not relevant
Process conditions: Pressure	Not relevant
Process temperature	Not relevant
Room size	Not relevant
Ventilation rate per hour	Not relevant
Technical conditions and measures at process level to prevent release	
Containment	PROC 2, 3, 11: closed process All other applicable PROCs: not required
Segregation	PROC 2, 3: not required PROC 11: Spraying in non-industrial settings has to be performed in segregated areas where direct exposure of the worker is excluded. All other applicable PROCs: not required
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	All applicable PROCs: Effectiveness : 78 %
Level of separation	PROC 11: Any potentially required separation of workers from the emission source is indicated above under "Frequency and duration of exposure". A reduction of exposure duration can be achieved, for example, by the installation of ventilated (positive pressure) control rooms or by removing the worker from workplaces involved with relevant exposure. All other applicable PROCs: Separation of workers from the emission source is generally not required in the conducted processes.
Organisational measures to prevent /limit releases, dispersion and exposure	
Good work practice	Avoid inhalation, ingestion and contact with skin and eyes. Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice. Workers wear protective clothing. Change working clothes after each work shift. Shower or bathe at the end of working. Do not smoke. When using do not eat or drink. Do not blow dust off with compressed air.
Conditions and measures related to personal protection, hygiene and health evaluation	
All applicable PROCs :	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask.: EN 143, EN 149, FFP2 Effectiveness : APF : 10
Gloves	Wear as appropriate: Protective gloves (EN 374) Protective gloves against thermal risks Protective gloves against mechanical risks
Eye/face protection	Yes Goggles (EN 166)



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תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Wear suitable protective equipment. Safety goggles	
2.2. Control of environmental exposure	
Product characteristics	
Not relevant	
Frequency and duration of use	Not relevant
Amount used	Not relevant
Environmental factors not influenced by risk management	
Dilution factor (river) Default	
Other given operational conditions affecting environmental exposure	
Indoor/Outdoor	
Conditions and measures related to waste	
Conditions and measures related to municipal sewage treatment plant	Municipal sewage treatment plant (Default size)
Conditions and measures related to external treatment of waste for disposal	Not relevant
Conditions and measures related to external recovery of waste	Not relevant
3. Exposure estimation and reference to its source	
3.1. Health	
Inhalation exposure	Qualitative assessment
Dermal exposure	Not relevant
Oral exposure	Qualitative assessment
Inhalation exposure	Not relevant (solid)
3.2. Environment	
The pH impact due to use of sodium hydrogen sulfate in household cleaning products is expected to be negligible. The influent of a municipal wastewater treatment plant is often neutralized anyway and sodium hydrogen sulfate may even be used beneficially for pH control of basic wastewater streams that are treated in biological WWTPs. Since the pH of the influent of municipal treatment plant is circum neutral, the pH impact is negligible on the receiving environmental compartments, such as surface water, sediment and terrestrial compartment.	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
The DU works inside the boundaries set by the exposure scenario if the substance is either marked as a liquid preparation or in case of a solid preparation is used as manufactured and not further processed to get smaller particles.	
4.2. Environment	
The DU works inside the boundaries set by the exposure scenario if the substance is either marked as a liquid preparation or in case of a solid preparation is used as manufactured and not further processed to get smaller particles.	

Exposure scenario 3 Consumer use of cleaning products

1. Exposure scenario	
Title	Consumer use of cleaning products
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	
Product category	PC35 - Washing and cleaning products (including solvent based products)
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems
Processes, tasks, activities covered	Consumer use of cleaning products
2. Operational conditions and risk management measures	
2.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	Acid surface cleaner (l) : 20 min (max) Acid surface cleaner (s) : 20 min (max) Toilet cleaner (s) : < 1 min
Frequency of exposure	Acid surface cleaner (l) : 7 /week (max) Acid surface cleaner (s) : 7 /week (max) Toilet cleaner (s) : 2 /week (max)
Product characteristics	
Emission potential	Not relevant
Physical Form (at time of use)	Acid surface cleaner (l) : Liquid Acid surface cleaner (s) : Solid Toilet cleaner (s) : Solid
Vapour pressure	Not relevant
Dustiness	Acid surface cleaner (l) : Not relevant Acid surface cleaner (s) : very low Toilet cleaner (s) : very low
Concentration of the Substance in Mixture/Article	Acid surface cleaner (l) : 6% Acid surface cleaner (s) : 10% Toilet cleaner (s) : 80%
Amount used	Acid surface cleaner (l) : (Typ) 12g/l; (max) 22g/l Acid surface cleaner (s) : (max) 8g/l Toilet cleaner (s) : (Typ) 20g; (max) 30g
Human factors not influenced by risk management	
Population potentially exposed	Adult (BW: 60 kg)
Breathing volume	Not relevant
Dermal exposure	Acid surface cleaner (l) : Both hands (857,5 cm²) Acid surface cleaner (s) : Both hands (857,5 cm²) Toilet cleaner (s) : Only splashes (-)
Other given operational conditions affecting consumers exposure	
Indoor/Outdoor	Not relevant
Room size	Not relevant
Ventilation rate per hour	Not relevant
Conditions and measures related to information and behavioural advice to consumers	
Avoid contact with eyes. Keep out of reach of children. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wash hands before breaks and immediately after handling the product.	
Conditions and measures related to personal protection, hygiene and health evaluation	



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

תחליף חומצה

Item code: 752010 - 752011 - 752005 - 752025 - 752012

Wash hands before breaks and immediately after handling the product. Assure an equal distribution of the salt by running the circulation pump for 4-6h and measure the pH to be in the desired range between 7,0-7,4 before swimming pool use.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable protective equipment. Safety goggles	
2.2. Control of environmental exposure	
Product characteristics	
Not relevant	
Frequency and duration of use	Not relevant
Amount used	Not relevant
Environmental factors not influenced by risk management	
Dilution factor (river) Default	
Other given operational conditions affecting environmental exposure	
Indoor/Outdoor	
Conditions and measures related to waste	
Conditions and measures related to municipal sewage treatment plant	Municipal sewage treatment plant Default
Conditions and measures related to external treatment of waste for disposal	Not relevant
Conditions and measures related to external recovery of waste	Not relevant
3. Exposure estimation and reference to its source	
3.1. Health	
Inhalation exposure	Qualitative assessment
Dermal exposure	Not relevant
Oral exposure	Qualitative assessment
Inhalation exposure	Not relevant (OC1 - Solid, low dustiness)
3.2. Environment	
The pH impact due to use of sodium hydrogen sulfate in household cleaning products is expected to be negligible. The influent of a municipal wastewater treatment plant is often neutralized anyway and sodium hydrogen sulfate may even be used beneficially for pH control of basic wastewater streams that are treated in biological WWTPs. Since the pH of the influent of municipal treatment plant is circum neutral, the pH impact is negligible on the receiving environmental compartments, such as surface water, sediment and terrestrial compartment.	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
The DU works inside the boundaries set by the exposure scenario if the substance is either marked as a liquid preparation or in case of a solid preparation is used as manufactured and not further processed to get smaller particles.	
4.2. Environment	
The DU works inside the boundaries set by the exposure scenario if the substance is either marked as a liquid preparation or in case of a solid preparation is used as manufactured and not further processed to get smaller particles.	



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SAFETY DATA SHEET

Revision nr : 4
Issuing date : 05/07/2012
Supersedes : 29/11/2011

Exposure scenario 4

Consumer use of the substance as pH-regulator for swimming pools

1. Exposure scenario	
Title	Consumer use of the substance as pH-regulator for swimming pools
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	
Product category	PC20 - Products such as ph-regulators, flocculants, precipitants, neutralization agents PC37 - Water treatment chemicals
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8b - Wide dispersive indoor use of reactive substances in open systems
Processes, tasks, activities covered	Consumer use of the substance as pH-regulator for swimming pools
2. Operational conditions and risk management measures	
2.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	Pouring of granules: 1,33 min Drop wise application of solution: >1 min-h Post-application ingestion: 5 - 6h
Frequency of exposure	Pouring of granules: 1/week Drop wise application of solution (s) : 1 /month Post-application ingestion: Every day
Product characteristics	
Emission potential	Not relevant
Physical Form (at time of use)	pH-regulating agents (l) : Liquid pH-regulating agents (s) : granular
Vapour pressure	Not relevant
Dustiness	pH-regulating agents (l) : Not relevant pH-regulating agents (s) : very low
Concentration of the Substance in Mixture/Article	pH-regulating agents (l) : ≤ 50% pH-regulating agents (s) : 100%
Amount used	pH-regulating agents (l) : 10% pH-regulating agents (s) : 10g/m² -> pH = -0,1 Post-application ingestion: 0,05 l/h
Human factors not influenced by risk management	
Population potentially exposed	Pouring of granules: adult (60 kg) Drop wise application of solution: adult (60 kg) Post-application ingestion: adult (60 kg) - Child (22 kg)
Breathing volume	Not relevant
Dermal exposure	Pouring of granules: Palms of both hands (430 cm²) Drop wise application of solution: Both hands (860 cm²) Post-application ingestion: (-)
Other given operational conditions affecting consumers exposure	
Indoor/Outdoor	Not relevant
Room size	Not relevant
Ventilation rate per hour	Not relevant
Skin Layer thickness	0,01 cm
Conditions and measures related to information and behavioural advice to consumers	
Avoid contact with eyes. Keep out of reach of children. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	



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