

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Svavelsyra/Svovelsyre/Sulphuric acid 51-99%**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Substance name : Svavelsyra/Svovelsyre/Sulphuric acid 51-99%
EC-No. : 231-639-5
CAS-No. : 7664-93-9
REACH-nr : 01-2119458838-20

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

Main use category : Professional use
Use of the substance/mixture : Electronics chemical

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Supplier**

Sunchem AB
Box 69
S-433 21 Partille Sweden
T +46 31 447310 - F +46 31 449581
[E-mail: d.s@sunco.se](mailto:d.s@sunco.se)

Manufacturer

Sunchem AB
Box 69
S-433 21 Partille Sweden
T +46 31 447310 - F +46 31 449581
[E-mail: d.s@sunco.se](mailto:d.s@sunco.se)

Contact person : Dick Sundström

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number |
|----------------|---|--|---|
| United Kingdom | National Poisons Information Service (Newcastle Unit) | Claremont Place Newcastle-upon-Tyne, Newcastle | +44 191 2606182/+44 191 2606180 24H |

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin Corr. 1A H314

Full text of H statements : see section 16

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**



Hazard pictograms (CLP) :

GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.
 P501 - Dispose of contents/containers in accordance with local regulations.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

CAS-No. : 7664-93-9

EC-No. : 231-639-5

| Name | Product identifier | % | CLP classification |
|----------------------------|---|------|--------------------|
| sulphuric acid (Note B) | (CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20 | > 90 | Skin Corr 1A; H314 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

First-aid measures after inhalation : Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Take off immediately all contaminated clothing. Get

medical attention if any discomfort continues. Chemical burns must be treated by a physician. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

First-aid measures after eye contact : Get medical advice/attention if you feel unwell. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : DO NOT induce vomiting. Get medical attention immediately. Rinse nose, mouth and throat with water. Drink plenty of water. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Causes severe skin burns and eye damage.
Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects after ingestion : If ingested may cause corrosion of gastrointestinal tract.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : Avoid water in straight hose stream; will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.
Hazardous decomposition products in case of : Very corrosive
gases/vapours/fumes. Sulphur oxides. fire

5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper personal protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Containers close to fire should be removed immediately or cooled with water.
Protection during firefighting : Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Use personal protective equipment as required. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

For non-emergency personnel

Protective equipment : Wear appropriate personal protective equipment - see Section 8.
Emergency procedures For : Keep public away from danger area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Discharging into rivers and drains is forbidden. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Dispose of at a licensed waste collection centre.
 Methods for cleaning up : Take up liquid spill into absorbent material. Post clean with water. Never pour spill back in original packaging for reuse.
 Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment. See section 13 for waste handling.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Additional hazards when processed : Corrosive storage.
 Precautions for safe handling : Ensure adequate ventilation. Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Never add water to acid!
 Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, and any incompatibilities

includin : Keep cool. Store in a well-ventilated place. Keep container tightly closed.
 Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Incompatible materials : Bases.

7.3. Specific end use(s)

No additional data.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Sulphuric acid (7664-93-9) | | |
|-------------------------------|------------------------------|--|
| United Kingdom | Local name | Sulphuric acid |
| United Kingdom | WEL TWA (mg/m ³) | 0.05 mg/m ³ mist |
| United Kingdom | Remark (WEL) | The mist is defined as the thoracic fraction |

8.2. Exposure controls

Appropriate engineering controls : Eye wash facilities and emergency shower must be available when handling this product.
 Hand protection : Wear suitable gloves. Latex. Neoprene. Layer thickness : >0,40mm. Breakthrough time : 240min. STANDARD EN 374.
 Eye protection : Chemical goggles or face shield. STANDARD EN 166.
 Skin and body protection : Wear suitable protective clothing
 Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use respiratory equipment with gas filter, type E. Standard EN 149.
 Other information : Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| Colour | : Yellowish. |
| Odour | : Stinging. |
| Odour threshold | : No data available |
| pH | : 0.3 - 2.1 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : ≈ 10.31 °C |
| Boiling point | : 290 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : < 0.13 kPa |
| Relative vapour density at 20 °C | : 3.4 |
| Relative density | : No data available |
| Density | : 1.8 g/cm ³ @ 20 °C |
| Solubility | : Very soluble in water. Water: 1000 g/l @ 20 °C |
| Log Pow | : No data available |

| | |
|----------------------|-----------------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 21 mPa.s @ 25 °C |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : Non flammable. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No incompatible groups noted.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Never add water to acid!.

10.4. Conditions to avoid

Do not add water directly to the product. It may cause a violent reaction. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

10.5. Incompatible materials

Bases. Water. Oxidizing agent. reducing materials. alkali metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified

Based on available data, the classification criteria are not met

| sulphuric acid (7664-93-9) | |
|---|---------------|
| LD50 oral rat | 2140 mg/kg |
| LC50 inhalation rat (Vapours - mg/l/4h) | 0.375 mg/l/4h |

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 0.3 - 2.1

Serious eye damage/irritation : Serious eye damage, category 1,
implicit pH: 0.3 - 2.1

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

| | |
|------------------------|--|
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| STOT-single exposure | : Not classified Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |

| | |
|--|--|
| Sulphuric acid 96-98% (7664-93-9) | |
|--|--|

| | |
|----------------------|---------------------------|
| Viscosity, kinematic | 11.667 mm ² /s |
|----------------------|---------------------------|

SECTION 12: ECOLOGICAL INFORMATION
12.1. Toxicity

| | |
|-------------------|--|
| Ecology - general | : The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment. |
|-------------------|--|

| | |
|-----------------------------------|--|
| sulphuric acid (7664-93-9) | |
|-----------------------------------|--|

| | |
|-------------|---|
| LC50 fish 1 | 42 mg/l (96 hours - Gambusia affinis - Mosquito fish) |
|-------------|---|

| | |
|----------------|--------------------------------------|
| EC50 Daphnia 1 | > 29 mg/l (48 hours - Daphnia magna) |
|----------------|--------------------------------------|

12.2. Persistence and degradability

| | |
|--|--|
| Sulphuric acid 96-98% (7664-93-9) | |
|--|--|

| | |
|-------------------------------|--------------------------------|
| Persistence and degradability | Componet(s) are biodegradable. |
|-------------------------------|--------------------------------|

| | |
|-----------------------------------|--|
| sulphuric acid (7664-93-9) | |
|-----------------------------------|--|

| | |
|-------------------------------|--------------------------------|
| Persistence and degradability | Componet(s) are biodegradable. |
|-------------------------------|--------------------------------|

12.3. Bioaccumulative potential

| | |
|--|--|
| Sulphuric acid 96-98% (7664-93-9) | |
|--|--|

| | |
|---------------------------|---------------------------------|
| Bioaccumulative potential | Not potentially bioaccumulable. |
|---------------------------|---------------------------------|

12.4. Mobility in soil

| | |
|--|--|
| Sulphuric acid 96-98% (7664-93-9) | |
|--|--|

| | |
|----------------|---|
| Ecology - soil | The product is water soluble and may spread in water systems. |
|----------------|---|

12.5. Results of PBT and vPvB assessment

Sulphuric acid 96-98% (7664-93-9)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : None to our knowledge.

SECTION 13: DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods

Regional legislation (waste) : Dispose as hazardous waste.






Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

European List of Waste (LoW) code : 06 01 01* - sulphuric acid and sulphurous acid

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|--|---|
| 14.1. UN number | | | | |
| 1830 | 1830 | 1830 | 1830 | 1830 |
| ADR | IMDG | IATA | ADN | RID |
| 14.2. UN proper shipping name | | | | |
| SULPHURIC ACID | SULPHURIC ACID | Sulphuric acid | SULPHURIC ACID | SULPHURIC ACID |
| Transport documentription desc | | | | |
| UN 1830 SULPHURIC ACID, 8, II, (E) | UN 1830 SULPHURIC ACID, 8, II | | | |
| 14.3. Transport hazard class(es) | | | | |
| 8 | 8 | 8 | 8 | 8 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

14.6. Special precautions for user
- Overland transport

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Data sources : EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Date of issue : 24/01/2011

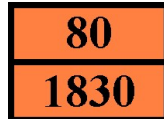
Revision date : 01/11/2018

Supersedes : 30/10/2015

Version : 3.0

Signature : K. Dyreskog

Hazard identification number (Kemler No.) : 80



Orange plates :
EAC code : 2P

- Transport by sea

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) :
Y840

Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code : No IBC-code for bulk transport offshore (MARPOL).

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

No REACH Annex XVII restrictions
Sulphuric acid 96-98% is not on the REACH Candidate List
Sulphuric acid 96-98% is not on the REACH Annex XIV List

National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Full text of H- and EUH-statements:

| | |
|---------------|--|
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| H314 | Causes severe skin burns and eye damage. |

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.