

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 01.11.2012

Revision: 31.10.2012

### 1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

· **Trade name:** **SULPHURIC ACID 96%**

· **Article number:** 20-5503-05

· **Registration number** 01-2119458838-20

· **Relevant identified uses of the substance or mixture and uses advised against**

Use of sulphuric acid as an intermediate in manufacture of inorganic and organic chemicals incl. fertilizers; Use of sulphuric acid as a processing aid, catalyst, dehydrating agent, pH regulator; Use of sulphuric acid for extractions and processing of minerals, ores; Use of sulphuric acid in the process of surface treatments, purification and etching; Use of sulphuric acid in electrolytic processes; Use of sulphuric acid in gas purification, scrubbing, flue gas scrubbing; Use of sulphuric acid in production of sulphuric acid contained batteries; Use of sulphuric acid in recycling of sulphuric acid contained batteries; Use of sulphuric acid in industrial cleaning; Use of sulphuric acid in industrial cleaning; Use of sulphuric acid in stripper; Use of sulphuric acid (<4 % w/w) in washing stages; Alkylation of aliphatics, esterification (closed, continuous process); PH regulator in the manufacturing process of pulp and paper; Metal refining, electroplating of zinc, electro-galvanizing of iron and steel articles; Use of sulphuric acid as laboratory chemical; Industrial USE of substance to formulate chemical product mixtures; Industrial USE of substance, as such or in a mixture, for surface/article treatment; Industrial USE of substance, as such or in a mixture, for surface/article treatment; Use of sulphuric acid as a drain cleaner; Intermediate use. Manufacture of chemicals. E.g. fertilisers, sulphonates, production of tanning agent in the leather industry, etc.; Metal mining; e.g. Zinc, Copper, Nickel, metal removal from sand and clays; Manufacture of chlorine dioxide in pulp and paper production; Removal of ammonia; aluminium sulfate production; Consumer use of Sulphuric Acid; Consumer USE of substance as part of specialist products/articles.

· **Sector of Use**

SU0 Other

SU2a Mining, (without offshore industries)

SU2b Offshore industries

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU4 Manufacture of food products

SU5 Manufacture of textiles, leather, fur

SU6a Manufacture of wood and wood products

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

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU11 Manufacture of rubber products

SU12 Manufacture of plastics products, including compounding and conversion

SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement

SU14 Manufacture of basic metals, including alloys

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

SU18 Manufacture of furniture

SU19 Building and construction work

SU20 Health services

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU24 Scientific research and development

· **Product category**

PC0 Other

PC1 Adhesives, sealants

PC2 Adsorbents

PC3 Air care products

PC4 Anti-Freeze and de-icing products

PC7 Base metals and alloys

PC8 Biocidal products (e.g. Disinfectants, pest control)

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- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC9c Finger paints
- PC11 Explosives
- PC12 Fertilizers
- PC13 Fuels
- PC14 Metal surface treatment products, including galvanic and electroplating products
- PC15 Non-metal-surface treatment products
- PC16 Heat transfer fluids
- PC17 Hydraulic fluids
- PC18 Ink and toners
- PC19 Intermediate
- PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents
- PC21 Laboratory chemicals
- PC23 Leather tanning, dye, finishing, impregnation and care products
- PC24 Lubricants, greases, release products
- PC25 Metal working fluids
- PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
- PC27 Plant protection products
- PC28 Perfumes, fragrances
- PC29 Pharmaceuticals
- PC30 Photo-chemicals
- PC31 Polishes and wax blends
- PC32 Polymer preparations and compounds
- PC33 Semiconductors
- PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
- PC35 Washing and cleaning products (including solvent based products)
- PC36 Water softeners
- PC37 Water treatment chemicals
- PC38 Welding and soldering products (with flux coatings or flux cores.), flux products
- PC39 Cosmetics, personal care products
- PC40 Extraction agents
- **Process category**
- PROC0: Other
- 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)
- PROC6 Calendering operations
- 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
- 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
- PROC16 Using material as fuel sources, limited exposure to unburned product to be expected

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- 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
- PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
- PROC21 Low energy manipulation of substances bound in materials and/or articles
- PROC22 Potentially closed processing operations with minerals/metals at elevated temperature - Industrial setting
- PROC23 Open processing and transfer operations with minerals/metals at elevated temperature
- PROC24 High (mechanical) energy work-up of substances bound in materials and/or articles
- PROC25 Other hot work operations with metals
- PROC26 Handling of solid inorganic substances at ambient temperature
- PROC27a Production of metal powders (hot processes)
- PROC27b Production of metal powders (wet processes)

· **Environmental release category**

- ERC1 Manufacture of substances
- ERC2 Formulation of preparations
- 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 thermo-plastics
- ERC6d Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
- ERC7 Industrial use of substances in closed systems
- 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)
- ERC12a Industrial processing of articles with abrasive techniques (low release)
- ERC12b Industrial processing of articles with abrasive techniques (high release)

· **Article category**

- AC0 Other
- AC1 Vehicles
- AC3 Electrical batteries and accumulators

· **Application of the substance / the preparation**

The product is used in the manufacture of fertilisers and in many industrial processes

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Severn Biotech Ltd.  
Unit 2,  
Park Lane,  
Kidderminster,  
Worcestershire.  
DY11 6TJ  
UK  
Tel: 0044 1562 825286

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Fax: 0044 1562 825284  
email: info@severnbiotech.com

- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R35: Causes severe burns.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms** GHS05

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Sulphuric acid

- **Hazard statements**

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** An aqueous solution of sulphuric acid

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**· Dangerous components:**

CAS: 7664-93-9	Sulphuric acid	 C R35	90 - 98%
EINECS: 231-639-5		 Skin Corr. 1A, H314	

**· Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.

Corrosive to all bodily tissues - the severity of injury depends on the concentration of the solution and the duration of exposure.

**SWIFT ACTION IS ESSENTIAL!**

**· After inhalation:**

Supply fresh air.

Call a doctor immediately.

In case of unconsciousness place patient stably in side position for transportation.

**DO NOT DELAY!**

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Call a doctor immediately.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

**DO NOT DELAY!**

Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes

**· After eye contact:**

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately.

**DO NOT DELAY!**

**· After swallowing:**

Wash mouth out with water

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately.

**DO NOT DELAY!**

**· Information for doctor:** Treat symptomatically and supportively.

**· Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

**· Extinguishing media**
**· Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· For safety reasons unsuitable extinguishing agents:** Water

**· Special hazards arising from the substance or mixture**

Direct contact with water can cause violent liberation of heat and splattering of the material.

Not combustible. Many reactions may cause fire or explosion.

Contact with metals may produce flammable hydrogen gas.

The substance is a strong dehydrating agent, which may cause ignition of finely divided organic materials upon contact.

Oxides of sulphur may be produced in a fire situation.

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- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
  - Do not inhale explosion gases or combustion gases.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.
  - In a fire or if heated, a pressure increase will occur and the container may burst.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
    - Ensure adequate ventilation
    - Wear protective equipment. Keep unprotected persons away.
    - No action shall be taken involving any personal risk or without suitable training.
    - Keep unnecessary and unprotected personnel from entering.
    - Do not touch or walk through spilt material.
    - Avoid breathing vapour or mist. Provide adequate ventilation.
    - Put on appropriate personal protective equipment.
  - **Environmental precautions:**
    - Do not allow to penetrate the ground/soil.
    - Do not allow to enter sewers/ surface or ground water.
  - **Methods and material for containment and cleaning up:**
    - Ensure adequate ventilation.
    - Do not use water.
    - Consult an expert! Evacuate danger area! Do NOT absorb in saw-dust or other combustible absorbents.
- LARGE SPILL : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.
- Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- SMALL SPILL: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry non-combustible material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- **Reference to other sections**
    - See Section 7 for information on safe handling.
    - See Section 8 for information on personal protection equipment.
    - See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of aerosols.
    - When diluting, always add the acid to the water; never add water to the acid.
- Warn relevant workers of the dangers of working with this product and provide suitable and sufficient training to ensure safe working.
- The product is corrosive to all bodily tissues. Direct contact (skin, eyes and by inhalation) and ingestion

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must be prevented. A safe system of work, taking into account the product properties and the operation taking place, must be formulated (by a competent, trained and suitably experienced person) prior to work taking place and the system must be followed to ensure the safety of workers and other who may be affected.

- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
  - Store away from water.
  - Store away from foodstuffs.
  - Do not store together with alkalis (caustic solutions).
  - Store away from combustibles.
- **Further information about storage conditions:**
  - Store in a bunded area.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**

**WORKERS**

Acute / short-term exposure - local effects  
 Inhalation DN(M)EL  
 - DNEL (Derived No Effect Level): 0.1 mg/m<sup>3</sup>

Long-term exposure - local effects  
 Inhalation DN(M)EL  
 - DNEL (Derived No Effect Level): 0.05 mg/m<sup>3</sup>
- **PNECs**

PNEC aqua (freshwater): 0.0025 mg/L  
 PNEC aqua (marine water): 0.00025 mg/L  
 PNEC STP: 8.8 mg/L  
 PNEC sediment (freshwater): 0.002 mg/kg sediment dw  
 PNEC sediment (marine water): 0.002 mg/kg sediment dw
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**

Select PPE appropriate for the operations taking place taking into account the product properties.
- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
 Storing food in the working area is prohibited.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

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A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision. Ensure that eyewash stations and safety showers are close to the workstation location. Discard contaminated footwear.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

Recommended: Combination filter, e.g. DIN 3181 ABEK or self-contained breathing apparatus (SCBA).

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Fluorinated rubber - FKM

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Face protection



Tightly sealed goggles

- **Body protection:** Acid resistant protective clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Mild

- **pH-value (10 g/l) at 20 °C:** <1

- **Change in condition**

<b>Melting point/Melting range:</b>	-7 °C (97%)
<b>Boiling point/Boiling range:</b>	327 °C (97%)

- **Flash point:** Not applicable.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

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· <b>Vapour pressure at 20 °C:</b>	0.485 hPa
· <b>Density at 20 °C:</b>	1.8 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Viscosity:</b>	
<b>Kinematic at 25 °C:</b>	21 mPas
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Risk of fire and explosion on contact with base(s), combustible substances, oxidants, reducing agents or water.
- **Possibility of hazardous reactions**  
Exothermic when mixed with water.  
Reacts with cyanides and sulphides to form poisonous gases.
  
- The substance is a strong oxidant and reacts violently with combustible and reducing materials.  
The substance is a strong acid, it reacts violently with bases and is corrosive to most common metals forming a flammable/explosive gas (hydrogen).  
Reacts violently with water and organic materials with evolution of heat.  
Upon heating, irritating or toxic fumes (or gases) (sulphur oxides) are formed.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**  
Water (except under controlled conditions), cyanides, sulphides, potassium chlorate, potassium perchlorate, bases, organic materials, potassium permanganate, halogens, acetylides, oxides and hydrides, metals (forms hydrogen gas), strong oxidising and reducing agents.
- **Hazardous decomposition products:** Sulphur oxides (SO<sub>x</sub>)

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

**LD/LC50 values relevant for classification:**
**7664-93-9 Sulphuric acid**

Oral	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	0.375 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**  
Lungs may be affected by repeated or prolonged exposure to an aerosol of this substance.  
Risk of tooth erosion upon repeated or prolonged exposure to an aerosol of this substance.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Inhalation of an aerosol of this substance may cause lung oedema. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential.

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

**INHALATION RISK:** Evaporation at 20 °C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

<b>7664-93-9 Sulphuric acid</b>
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EC50 >100 mg/kg (daphnia)
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- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** Product is not expected to bioaccumulate.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Contact waste processors for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

- **European waste catalogue**

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

- **Uncleaned packaging:**

- **Recommendation:**

Container remains hazardous when empty. Continue to observe all precautions.

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Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

#### 14 Transport information

· UN-Number	
· ADR, IMDG, IATA	1830
· UN proper shipping name	
· ADR	1830 SULPHURIC ACID
· IMDG, IATA	SULPHURIC ACID
· Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1 L
· Tunnel restriction code	E
· UN "Model Regulation":	UN1830, SULPHURIC ACID, 8, II

#### 15 Regulatory information

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H314 Causes severe skin burns and eye damage.

R35 Causes severe burns.

· **Department issuing MSDS:** Product safety department.