



Safety Data Sheet

Product and Company Identification

Product Name	Sulphuric Acid
Use	Purification, adsorption of contaminants
Distributor/Agent	7D Holdings SA (Pty) Ltd
Address	Unit E26, U Can Store Storage 30 Elandclose Alberton, 1449 Johannesburg, RSA
Telephone Number	+27 (0)11 057 6755
Fax Number	+27 (0)86 733 8598
Email	info@7dholdings.com / sales@7dholdings.com
Country of Manufacture	South Africa

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

Product identifier	
Trade name	Sulphuric Acid
Synonyms	Dihydrogen sulfate

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

Use Industrial use.

Manufacturer or supplier's details

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Skin corrosion	Category 1B
	Serious eye damage	Category 1



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Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention

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

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash the contact area thoroughly after handling.

Response

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.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Substance

Sulphuric acid

Contents: ≥ 95.00 - ≤ 100.00 %W/W

CAS-No. 7664-93-9

Index-No. 016-020-00-8

EC-No. 231-639-5

Hazard statements H314



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, get medical attention immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Without any delay, irrigate the area of contact with copious amounts of water for an extended period. Summon emergency medical care and arrange for an emergency consultation with an appropriately experienced physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture	Do not allow run-off from fire fighting to enter drains or water courses. Exposure to decomposition products may be a hazard to health.



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Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions Use personal protective equipment. Do not breathe vapours or spray mist.

Environmental precautions Do not flush into surface water or sanitary sewer system.
Highly corrosive. Liberates high localized heat when when it comes in contact with water, causing acid smoke, boiling and spattering.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Neutralise with lime or soda ash. Each kg acid will require approximately 1.27kg soda ash or 1.16kg hydrated lime to neutralise.

Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

Advice on protection against fire and explosion The product is not flammable.Product resists ignition and does not promote flame spread.

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.Keep in an area equipped with acid resistant flooring.Keep away from direct sunlight.The product is hygroscopic.

Advice on common storage No data available

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters



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NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
SULPHURIC ACID	TWA	1 mg/m ³	1995	South Africa RELs

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Suitable respiratory equipment:

Hand protection

Gloves suitable for permanent contact:

Material: fluoro carbon rubber - FKM, butyl-rubber

Break through time: 8 hrs

Material thickness: 0.5 mm

Unsuitable gloves

Material: natural rubber/natural latex, Polyvinylchloride, nitrile rubber/nitrile latex, polychloroprene

Eye protection

Tightly fitting safety goggles

Skin and body protection

Protective suit

Hygiene measures

Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Viscous
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Clear
Odour	Sulphurous
Odour Threshold	No data available



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Melting point/range	-35 - 10.36 ° C
Boiling point/boiling range	327 ° C
Flash point	Non-flammable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	0.024 hPa; 20 ° C
Relative vapour density	No data available
Density	1.8 g/m ³
Water solubility	Completely miscible, Completely soluble

SECTION 10. Stability and reactivity

Reactivity	The substance does not present additional dangers of reactivity.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Attacks many metals, producing hydrogen (highly flammable) may form explosive mixtures with air. Alkali.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Incompatible with strong bases and oxidizing agents. Avoid adding water to acid as this will cause excessive heat. Acid react violently with water and cause acid smoke, boiling and spattering.
Hazardous decomposition products	Sulphur oxides

SECTION 11. Toxicological information

Acute oral toxicity	Sulphuric acid: LD50 Rat: 2,140 mg/kg; (literature value)
Acute inhalation toxicity	Sulphuric acid: LC50 Rat: 2 h; vapour; 510 mg/l; (literature value)
Skin irritation	Sulphuric acid: Rabbit: Causes burns.; (literature value)



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Eye irritation	Sulphuric acid: Rabbit: Highly irritating (literature value)
Eye contact	Causes eye burns.
Skin contact	Causes skin burns.

SECTION 12. Ecological information

Toxicity to fish	Sulphuric acid: static test; Brachydanio rerio; 96 h; > 500 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Sulphuric acid: Daphnia magna; 48 h; 70 - 80 mg/l(literature value)
Biodegradability	No data available
Bioaccumulation	No data available
Mobility in soil	No information available.
Results of PBT and vPvB assessment	This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. Disposal considerations

Product	Dispose of as special waste in compliance with local and national regulations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

ADR	
UN number:	1830
Class:	8
Packaging group:	II; C1;
Proper shipping name:	SULPHURIC ACID
RID	
UN number:	1830



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Class: 8
Packaging group: II; C1
Proper shipping name: SULPHURIC ACID
ADNR
UN number: 1830
Class: 8
Packaging group: II; C1
Proper shipping name: SULPHURIC ACID
IMDG
UN number: 1830
Class: 8
EmS: F-A, S-B
Packaging group: II
Proper shipping name: SULPHURIC ACID
Marine pollutant Not a Marine Pollutant
ICAO/IATA
UN number : 1830
Class: 8
Packaging group: II
Proper shipping name: SULPHURIC ACID

SECTION 15. Regulatory information

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

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)



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Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H314 Causes severe skin burns and eye damage.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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