



Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

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

Product identifier

Trade name

Sulphuric Acid 78%

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

Use

Industrial use.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

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0800 112 890 RSA-Local only
+61 (2) 8014 4558 (Australia)

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

Label elements

REGULATION (EC) No 1272/2008

Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

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.

Storage

P405 Store locked up.

Disposal

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

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

SECTION 3. Composition/information on ingredients

Substance

Sulphuric acid

Contents: 78.00 %W/W

CAS-No. 7664-93-9

Index-No. 016-020-00-8

EC-No. 231-639-5

Hazard statements *H314*



SASOL

Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

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. Wash off immediately with soap and plenty of water. Call a physician immediately.
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	Dry chemical powder. Carbon dioxide (CO ₂)
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. May intensify fire of combustible material.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures



Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

- 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.
- 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

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
SULPHURIC ACID	TWA	1 mg/m3	1995	South Africa RELs

Exposure controls

Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

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 liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Clear, colourless, oily liquid
Odour	Sulphurous
Odour Threshold	No data available
Melting point/range	No data available
Boiling point/boiling range	190 ° C
Flash point	Non-flammable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Decomposition	No data available
Temperature	



SASOL

Safety Data Sheet

Sulphuric Acid 78%

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Vapour pressure	1.6 hPa; 40 ° C
Relative vapour density	No data available
Density	1.71 g/cm ³ ; 20 ° C
Water solubility	completely soluble

SECTION 10. Stability and reactivity

Reactivity	Thermal decomposition may release acrid smoke, irritating fumes and toxic oxides of sulfur.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts violently with water. Attacks many metals, releasing Hydrogen Highly reactive with alkalis
Conditions to avoid	Heat, flames and sparks. Exposure to moisture
Materials to avoid	Incompatible with strong bases and oxidizing agents. Metals
Hazardous decomposition products	Sulphur oxidesHydrogen Sulfide

SECTION 11. Toxicological information

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

SECTION 13. Disposal considerations

Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

Product Dispose of as special waste in compliance with local and national regulations.

Packaging

SECTION 14. Transport information

DG Pictogram



ADR

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

RID

UN number: 1830
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

Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

UN number : 1830
 Class: 8
 Packaging group: II
 Proper shipping name: SULPHURIC ACID
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

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)
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	All chemical constituents are listed in: China Inv. Existing



Safety Data Sheet

Sulphuric Acid 78%

Version 1.00

Revision Date 05.08.2021

(IECSC)

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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