SAFETY DATA SHEET

Sulphuric acid 15-51 %

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

1.1. Product identifier

Trade name

Sulphuric acid 15-51 %

Product no.

308, 338, 375, 1036, 1147

REACH registration number

01-2119458838-20

Other means of identification

Index No.: 016-020-00-8
EC No.: 231-639-5
CAS No.: 7664-93-9

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

Relevant identified uses of the substance or mixture

pH regulation. Process chemical. Surface treatment of metals
Restricted to professional and industrial use.

Use descriptors (REACH)

Sectors of use	**Description**
LCS "IS"	Industrial uses: Uses of substances as such or in preparations at industrial sites
SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9	Manufacture of fine chemicals
Product category	**Description**
PC 20	Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific
Process category	**Description**
PROC 1	Use in closed PROC ess, no likelihood of exposure
PROC 2	Use in closed, continuous PROC ess with occasional controlled exposure
PROC 3	Use in closed batch PROC ess (synthesis or formulation)
PROC 4	Use in batch and other PROC ess (synthesis) where opportunity for exposure arises
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC 13	Treatment of articles by dipping and pouring
Environmental release category	**Description**
ERC 6b	Industrial use of reactive processing aids

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Acinor AS
Titangaten 13
1630 Gamle Fredrikstad
Norway
+ 47 69 38 40 82
+ 47 69 38 40 84

Contact person

-

E-mail

post@acinor.no

Revision

02/03/2026

SDS Version

1.0

1.4. Emergency telephone number

In urgent situations: Call 113 and request the poison information centre. (24h service)
Poison Center at Tel.: + 47 22 59 13 00
See section 4 on 'First Aid Measures'

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

Not applicable.

Prevention

Do not breathe vapour/mist/dust/fume/gas/spray. (P260)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER/doctor. (P310)

Storage

Not applicable.

Disposal
Not applicable.

Hazardous substances
Sulphuric acid ...%

Additional labelling

2.3. Other hazards

Additional warnings
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product/substance	Identifiers	% w/w	Classification	Note
Sulphuric acid ...%	CAS No.: 7664-93-9 EC No.: 231-639-5 REACH: 01-2119458838-20 Index No.: 016-020-00-8	15 - 51 %	Skin Corr. 1A, H314 (SCL: C ≥ 15 %) Skin Irrit. 2, H315 (SCL: 5 % ≤ C < 15 %) Eye Irrit. 2, H319 (SCL: 5 % ≤ C < 15 %)	[1]

3.2. Mixtures
Not applicable. This product is a substance.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information
[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Emergency telephone: see section 1.4.

Inhalation
Fresh air, calm and warmth. Contact a doctor if irritation persists. If breathing stops, give artificial respiration. If breathing is difficult, oxygen may be necessary. Contact a doctor immediately!

Skin contact
Remove contaminated clothing. Wash skin immediately with soap and water. Continue rinsing for at least 15 minutes. Burns should be treated by a physician.

Eye contact
Rinse immediately with large amounts of water (temperature 20-30°C) for at least 30 minutes. Remove contact lenses, if present, and open the eye wide. Transport to a doctor. Continue rinsing during transport.

Ingestion
Rinse mouth with water. Give a couple of glasses of milk or water immediately if the injured person is fully conscious. Do not induce vomiting. Risk of perforation (penetration) of the esophagus and stomach. Contact a doctor immediately.

Burns
Not applicable.

4.2. Most important symptoms and effects, both acute and delayed
The chemical is corrosive to skin and mucous membranes. Forms blisters and can cause ulceration.
The chemical is corrosive to the eyes and can cause permanent damage. Symptoms such as severe burning, watery eyes, redness and blurred vision may occur. In severe cases, there is a risk of visual impairment/blindness.

Corrosive if swallowed. Causes burning pain in the mouth, throat and esophagus. Risk of serious permanent damage. Risk of perforation of the esophagus. Hospital treatment required.

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

Symptomatic treatment.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, fog or mist. Alcohol-resistant foam. Powder. Carbon dioxide (CO_2).
Unsuitable extinguishing media: Do not use full water jet.

5.2. Special hazards arising from the substance or mixture

The chemical is not classified as flammable.
Hazardous combustion products may include, but are not limited to: carbon dioxide (CO_2), carbon monoxide (CO), sulfur oxides (SOx).

5.3. Advice for firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Be careful! The product is corrosive.
Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

6.2. Environmental precautions

Prevent discharge into sewers, waterways or soil.

6.3. Methods and material for containment and cleaning up

Small amounts should be dissolved/diluted with water and flushed down the drain.
Large spills: Neutralize spilled material with crushed limestone, sodium carbonate (soda) or lime.
Absorb in vermiculite, dry sand or earth and place in containers. Collect in suitable containers and dispose of as hazardous waste according to section 13. Containers and collected spillage should be carefully labeled with contents and hazard symbol/hazard pictogram.

6.4. Reference to other sections

See also sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Be careful! The product is corrosive.
Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

PTFE, PE, PP, glass, stoneware/porcelain, carbon steel, steel with PTFE coating, cast iron container.

Storage conditions

No specific requirements.

Incompatible materials

Water
Metalls

Organic matter
Combustible materials
Strong reducing agents.
Food and animal feed

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sulphuric acid ...%
Long term exposure limit (8 hours) (mg/m³): 0,1
Annotations:
E = The EU has set an indicative limit value and/or remark for the substance.
K = Carcinogenic substance.

Reference: FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier. Sist endret gjennom FOR-2025-12-18-2660.

DNEL

Sulphuric acid ...%

Duration:	Route of exposure:	DNEL:
Short term – Local effects - Workers	Inhalation	0,1 mg/m³

PNEC

Sulphuric acid ...%

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,0025 mg/L
Freshwater sediment		0,002 mg/L
Marine water		0,00025 mg/L
Marine water sediment		0,002 mg/L
Sewage treatment plant		8,8 mg/L

8.2. Exposure controls

Ensure adequate ventilation. Personal protective equipment should be CE marked and should be selected in cooperation with the supplier of such equipment. The recommended protective equipment and the standards specified are indicative. Standards should be of the latest version. Risk assessment of the relevant workplace/operation (actual risk) may require other protective measures. The suitability and durability of the protective equipment will depend on the area of application.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

Follow the link to the relevant exposure scenario in section 16 and ensure that the operational conditions and risk management measures are complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation or if there is a risk of inhalation of vapours, suitable respiratory protection with combination filter (type E/P2) must be used.	E/P2		NS-EN 143 (Åndedrettsvern - Partikkelfiltre - Krav, prøving, merking).

Skin protection

Recommended	Type/Category	Standards
Wear appropriate protective clothing to protect against skin contact.		-
Emergency shower should be available at the workplace.		-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,5	> 480	EN374-2, EN16523-1, EN388	
Viton	0,4	> 480	EN374-2, EN16523-1, EN388	
Replace gloves at any sign of wear. Protective gloves must always be worn on clean, dry hands.	-	-		

Eye protection

Type	Standards	
Safety glasses with side shields.	EN ISO 16321-1	
An eyewash station should be available at the workplace. Either a fixed eyewash station connected to drinking water (tempered water	-	

Type	Standards
preferred) or a portable disposable unit (eyewash bottle).	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Colourless

Odour / Odour threshold
Sour

pH
No data available

Density (g/cm^3)
1,82 - 1,84 (20 °C)

Kinematic viscosity
No data available

Particle characteristics
Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C)
29,44

Softening point/range (°C)
Does not apply to liquids.

Boiling point (°C)
282 - 330

Vapour pressure
0.006 kPa (20 °C)

Relative vapour density
No data available

Decomposition temperature (°C)
800

Data on fire and explosion hazards

Flash point (°C)
No data available

Flammability (°C)
No data available.

Auto-ignition temperature (°C)
No data available

Lower and upper explosion limit (% v/v)
No data available

Solubility

Solubility in water
Soluble

n-octanol/water coefficient (LogKow)
No data available.

Solubility in fat (g/L)
No data available.

9.2. Other information

Other physical and chemical parameters
No data available.

Oxidizing properties
No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under recommended storage conditions.

10.2. Chemical stability
Stable when stored and handled properly.
Stable under normal temperature conditions and recommended use. The substance is hygroscopic and absorbs water in contact with humidity.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Extremes of temperature
Moisture

10.5. Incompatible materials
Combustible materials
Strong reducing agents.
Organic matter
Metalls
Alcohol

10.6. Hazardous decomposition products
None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

The chemical is not classified as environmentally harmful.

12.2. Persistence and degradability

Methods for determining biodegradability are not relevant for inorganic substances.

12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

The product is soluble in water.
Can be dispersed in water systems.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

Prevent discharge into sewers, waterways or soil.
Larger emissions can have a negative impact on the aquatic environment due to local pH reduction.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Delivered as hazardous waste to an approved treatment or collector. The hazardous waste code (EAL code) is a guideline. The user must specify the correct EWC code if the area of use deviates. The product must not be poured down the drain.

EWC code

06 01 01* Sulphuric acid and sulphurous acid

National waste number and description

7131 Inorganic peroxides

Contaminated packing

EWC code

15 01 10* Packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/ADN/RID	UN2796	SULPHURIC ACID	Transport hazard class: 8 Label: 8	II	No	Limited quantities:

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
			Classification code: C1 			1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN2796	SULPHURIC ACID	Transport hazard class: 8 Label: 8 Classification code: C1 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN2796	SULPHURIC ACID	Transport hazard class: 8 Label: 8 Classification code: C1 	II	No	See below for additional information.

Additional information

This product is within scope of the regulations of transport of dangerous goods.
ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Industrial use only.
People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Regulation on drug precursors

Sulphuric acid ...% is included (Category 3)

Regulation on explosives precursors
Sulphuric acid ...% (Annex I)

Product registration number
608750

Declaration of chemicals
The product is subject to registration in the Product Register because it contains explosives precursors.

Additional information
Not applicable.

Sources
Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation) of 30 May 2008 with subsequent amendments.
Regulations on classification, labelling and packaging of substances and mixtures (CLP) of 16.06.2012 with subsequent amendments.
FOR-2004-06-01-930: Regulations on the recycling and treatment of waste (the Waste Regulations), with subsequent amendments.
FOR 2009-04-01 no. 384: Regulations on the land transport of dangerous goods with subsequent amendments, Directorate for Civil Protection and Emergency Preparedness.
FOR-2015-05-19-541: Regulations on the declaration of chemicals to the product register (declaration regulations) of 01.06.2015 with subsequent amendments.

15.2. Chemical safety assessment
Yes

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1
LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites
SU 8 = Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9 = Manufacture of fine chemicals
PROC 1 = Use in closed PROC ess, no likelihood of exposure
PROC 2 = Use in closed, continuous PROC ess with occasional controlled exposure
PROC 3 = Use in closed batch PROC ess (synthesis or formulation)
PROC 4 = Use in batch and other PROC ess (synthesis) where opportunity for exposure arises
PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 8b = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9 = Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC 13 = Treatment of articles by dipping and pouring
PC 20 = Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific
ERC 6b = Industrial use of reactive processing aids

Abbreviations and acronyms
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Kiwa Kompetanse AS / NOB

Other

Dette sikkerhetsdatablad er kvalitetskontrollert av Kiwa Kompetanse AS, som er sertifisert iht. ISO 9001:2015.
Country-language: NO-en

Exposure scenario

Sulphuric acid 15-51% (EN).pdf (https://almego.ecoonline.net/file/LDHRFA)