

Safety Data Sheet

Acid 50

Hazard statement(s)

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H350	May cause cancer [route]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor/...
P321	Specific treatment (see ... on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Sulfuric acid

Concentration	Not specified
EC no.	231-639-5
CAS no.	7664-93-9
Index no.	016-020-00-8

- Skin corrosion/irritation, Cat. 1A

H314	Causes severe skin burns and eye damage
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SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Immediately remove any clothing soiled by the product.
If inhaled	Do not breathe dust/fumes/gas/mist/vapors/spray.

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

In case of skin contact

Remove/take off immediately all contaminated clothing.
Immediately wash with soap and water and rinse thoroughly.

In case of eye contact

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

If swallowed

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

4.2 Most important symptoms/effects, acute and delayed

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Specific hazards arising from the chemical

Sulfuric acid: No data available.

5.3 Special protective actions for fire-fighters

No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Dilute with plenty of water.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Corrosive to Aluminum.
Do not store together with reducing agents, heavy-metal compounds, acids and alkali's.
Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sulfuric acid (CAS: 7664-93-9 EC: 231-639-5)

PEL (Inhalation): 1 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 0.1 mg/m³, (ST) 3 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1 mg/m³; USA (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): 0.2 mg/m³, (Thor.); USA (ACGIH)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 0.2 mg/m³; USA (ACGIH)

USA. ACGIH Threshold Limit Values (TLV)

TWA (Inhalation): 1 mg/m³; USA (OSHA)

USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

8.2 Appropriate engineering controls

Keep away from foodstuffs beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Tightly sealed goggles.

Skin protection

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of glove material on consideration of penetration times, rates of diffusion and degradation. The selection of 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 cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid, red
Odor	Mild
Odor threshold	Not determined
pH	< 2
Melting point/freezing point	Undetermined
Initial boiling point and boiling range	100 C (212 F)
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	Not determined
Vapor pressure	at 20 C (68 F): 23 hPa (17 mm Hg)
Vapor density	at 20 C (68 F): 1.14 g/cm (9.513 lbs/gal)
Relative density	Not determined
Solubility(ies)	Fully miscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Product does not present an explosion hazard.
Oxidizing properties	

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Sulfuric acid: Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with:, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals

10.6 Hazardous decomposition products

Sulfuric acid: Hazardous decomposition products formed under fire conditions. - Sulphur oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Caustic effect on skin and mucous membranes.

Serious eye damage/irritation

Strong caustic effect.

Summary of evaluation of the CMR properties

The product shows the following dangers according to internally approved calculation methods for preparations: corrosive.

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

Carcinogenic categories:

IARC (International Agency for Research on Cancer): 7664-93-9 sulfuric acid.

NTP (National Toxicology Program): 7664-93-9 sulfuric acid.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

Disposal of the product

Must not reach bodies of water or drainage ditch undiluted or un-neutralized.

Disposal of contaminated packaging

Must not be disposed of together with household garbage.

Waste treatment

Do not allow product to reach sewage system.

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Sewage disposal

Do not allow product to reach sewage system

Other disposal recommendations

Disposal must be made according to official regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN 3264

Class: 8 Corrosive substance

Packing Group: II

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid, Nitric Acid)

Reportable quantity (RQ):

Marine pollutant: No

IMDG

UN Number: UN3264

Class: 8 Corrosive substance

Packing Group: II

EMS Number: F-A-S-B

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid, Nitric Acid)

IATA

UN Number: UN3264

Class: 8 Corrosive substance

Packing Group: II

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid, Nitric Acid)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Sulfuric acid

CAS number: 7664-93-9

New Jersey Right To Know Components

Sulfuric acid

CAS number: 7664-93-9

Pennsylvania Right To Know Components

Sulfuric acid

CAS number: 7664-93-9

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

Sulfuric acid

CAS number: 7664-93-9

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SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:
Sulfuric acid
CAS number: 7664-93-9

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.
Sulfuric acid
CAS number: 7664-93-9

California Prop. 65 components

Chemical name: Sulfuric acid
CAS number: 7664-93-9
03/14/2003 - Cancer

15.2 Chemical Safety Assessment

Causes severe skin burns and eye damage.

May cause cancer.

If medical advice is needed, have product container or label on hand.

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/vapor/spray.

If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

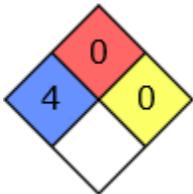
Continue rinsing.

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

HMIS Rating

Acid 40	
HEALTH	4
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall BouMatic LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if BouMatic LLC has been advised of the possibility of such damages.

16.2 Preparation 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.