Mettler-Toledo AG

Process Analytics

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Safety Data Sheet

Redox buffer solution 468 mV pH 0.1 (9883)

Identification of the substance / preparation and the company / undertaking

Use of the substance /

preparation

Redox buffer solution.

Chemical characterization

Aqueous solution containing inorganic salts and acid.

Product code

51 319 058

Supplier

Mettler-Toledo AG **Process Analytics** Im Hackacker 15 CH-8902 Urdorf Switzerland

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Emergency telephone number

+41-44-251 51 51 (Tox Center)

Revision date

09.05.2007

Number

3

Composition / information on ingredients

Hazardous components

Sulfuric acid (>= 5 %), [C, R-35], CAS No. 7664-93-9, EU No. 016-020-00-8, EINECS No. 231-639-5

Hazards identification 3.

Irritating to eyes and skin.



4. First aid measures

Inhalation No special measures required.

Skin contact Wash off with soap and water.

Eye contact Rinse thoroughly with plenty of water, also under

the eyelids. If eye irritation persists, consult a specialist.

Ingestion Immediately give large quantities of water to drink.

Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media No special measures required.

Extinguishing media which must not be used for safety reasons

None.

Specific hazards The product is not flammable.

Special protective equipment

for firefighters Standard procedure for chemical fires.

6. Accidental release measures

Personal precautions Sweep up to prevent slipping hazard.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Flush with water.

7. Handling and storage

Handling When using, do not eat, drink or smoke.

Avoid contact with skin and eyes.

Storage Keep containers tightly closed.

8. Exposure sontrols / personal protection

Exposure limit(s) OEL value: 0.1 mg/m³ (Sulfuric acid) [Breathable dust;

embryotoxic substance (group C): there is no reason to fear poisoning of the fetus as long as the exposure is

below the OEL value].



Engineering measures

to reduce exposureAvoid contact with skin, eyes and clothing.

Personal protection equipment:

Respiratory protectionNo personal respiratory protective equipment

normally required.

Hand protection Gloves.

Eye protection Safety glasses.

9. Physical and chemical properties

Form Liquid.

Colour Yellow. Clear. Odour None.

ododi None.

Physical and chemical properties pH: 0.1

Boiling point/range: > 100 °C Relative density: ~1 g/ml

Flash point: does not ignite Water solubility: completely miscible

10. Stability and reactivity

Stability Stable under recommended storage conditions.

Conditions to avoid Extremes of temperature and direct sunlight.

Materials to avoid Incompatible with bases.

Hazardous decomposition

products Hydrogen, by reaction with metals.

11. Toxocological information

Acute toxicity Sulfuric acid:

LD50/oral/rat = 2140 mg/kg.

LC50/inhalative/rat = 420 ppm (1h).

Local effects Irritating to eyes and skin.

Sensitization None.

Specific effects No data is available on the product itself.

Human experience This product has no known adverse effect on

human health.

Further information No persistent or cumulative effects were observed.



12. Ecological information

Ecotoxicity Wastewater from subsequent processing should be given

appropriate treatment in line with local regulations.

Mobility No data is available on the product itself.

13. Disposal considerations

Waste from residues /

unused products Can be disposed as wastewater, when in compliance

with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID Proper shipping name: Corrosive liquid, acidic, inorganic,

n.o.s. (contains sulfuric acid).

UN No.: 3264.
Kemler code: 80.
Class: 8.
Packing group: III.
ADR/RID-Labels: 8.

IMO Proper shipping name: Corrosive liquid, acidic, inorganic,

n.o.s. (contains sulfuric acid).

UN No.: 3264. Packing group: III. IMO-Labels: 8.

EMS: F-A, S-B.

IATA Proper shipping name: Corrosive liquid, acidic, inorganic,

n.o.s. (contains sulfuric acid).

UN No.: 3264. Packing group: III. IATA-Labels: 8.

Packing instruction

(passenger aircraft): 818 (5 L).

Packing instruction

(cargo aircraft): 820 (60 L).

15. Regulatory information

Regulatory information The product is classified and labelled in accordance

with EC directives or respective national laws.

Symbol(s) Xi - Irritant.

R-phrase(s) R36/38: Irritating to eyes and skin.

S-phrase(s) S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse

immediately with plenty of water and seek

medical advice.

S39: Wear eye/face protection.

16. Other information

Recommended use For industrial application only.

Text of R phrases mentioned

in section 2 R35: Causes severe burns.

End use The information provided in this Safety Data Sheet is

correct to the best of our knowledge, information and belief at the date of its publication. It is not to be considered a warranty or quality specification.