

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Render harmless: neutralize with diluted sodium hydroxide solution or by throwing on lime, lime sand, or sodium carbonate.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of vapors/aerosols. Work under hood.
Do not inhale substance.

Storage:

Tightly closed. In a well-ventilated place at +15 to +25 °C. Protect from light. Store in fridge if possible. Accessible only for authorized persons.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients:

SULFURIC ACID
EXPOSURE LIMITS - GERMANY
Source Type Value
TRGS 900 OEL 1 mg/m³

EXPOSURE LIMITS - DENMARK
Source Type Value
OEL TWA 1 mg/m³

MERCURIC SULPHATE
MAK 0.1000 mg/m³
TLV 0.1000 mg/m³

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection:

Required when vapors/aerosols are generated. Work under hood.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Yellow-orange liquid with undissolved solid

Odor: Odorless

Density at 20° C: ~ 1.7 g/cm³

Melting Point: NA

Boiling Point: ND

Solubility: Soluble (development of heat)

pH at 20° C: < 0.5

Explosion Limit: NA

Flash Point: NA

Thermal Decomp.: > 338 °C

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Hygroscopic. Has a corrosive effect. Incompatible with metals.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Combustible substances, water, metals, metal alloys, alkali metals, alkali compounds, alkali hydroxides, alkali oxides, alkaline earth compounds, alkalis, ammonia, nitrates, sodium carbonate, lithium silicide, halogen-halogen compounds, salts of oxyhalogenic acids, bromates, chromates/perchromates, perchlorates, perchloric acid, permanganates, permanganic acid, organic nitro compounds, nonmetals, nonmetallic oxides, picrates, hydrogen peroxide, nitramide, mercury nitride, ammonium iron (III) sulfate dodecahydrate

SECTION 11: TOXICOLOGICAL INFORMATION

Quantitative data on the toxicity of this product is not available.

In Case of Inhalation: After inhalation of aerosols: damage to the affected mucous membranes.

In Case of Skin Contact: Severe burns with formation of scabs.

In Case of Eye Contact: Burns, corneal lesion.

In Case of Ingestion: Severe pain (risk of perforation!), nausea, vomiting and diarrhea.

Further Data:

Systemic effects: Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: ACUTE: contact with eyes causes severe lesions. Swallowing and inhalation of dust damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottal edema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic. CHRONIC: inflammation of the mouth with loss of teeth and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia). The product should be handled with the usual care when dealing with chemicals.

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available. Biological effects: High aquatic toxicity. Harmful effect due to pH shift. Caustic even in diluted form. Endangers drinking water supplies if it enters in large quantities in soil and/or waters. Does not cause biological oxygen deficit.

APPLICABLE TO PARTIAL COMPONENT:

Fish toxicity:

Sulfuric acid: lethal from 1.2 mg/L; from 6.3 mg/L lethal in 24h.

mercury: LC50: 0.5 mg/L Hg(II) ions. Hazard for drinking water.

Luminescent bacteria toxicity:

mercuric chloride: EC20: 0.28 mg/L; ED50: 0.35 mg/L

Further Data: DO NOT ALLOW TO ENTER WATERS, WASTE WATERS, OR SOIL!

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORTATION INFORMATION

Land:

ADR/RID: 9/PG II/ UN3316
Name : CHEMICAL KIT

Sea:

IMDG: 9/PG II/ UN3316
Name: CHEMICAL KIT
Marine pollutant

Air:

ICAO/IATA: 9/PG II/ UN3316
Name: CHEMICAL KIT

Transport data applies to the COMPLETE KIT!

SECTION 15: REGULATORY INFORMATION**Labeling according to EC Directives:****Symbol:** T: Toxic

C: Corrosive

R-phrases: 23/24/25-33-35-52/53: Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S-phrases:** 26-30-36/37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never add water to this product. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**Contains:** Mercury (II) sulphate, Sulfuric acid**SECTION 16: OTHER INFORMATION****Text of R-phrases under Section 3**

26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

33: Danger of cumulative effects.

35: Causes severe burns.

50: Very toxic to aquatic organisms.

53: May cause long-term adverse effects in the aquatic environment.

Revision Information**Revision Date:** 2008-12-01**Supersedes edition of:** 2008-01-03**Reason for revision:** REACH Compliance and General Update**Legend**

NA: Not Applicable

ND: Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.