

WTW Safety Data Sheet

According to EC Directives 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Product name:

Quicksilver

Ord. No.: 209 160

Model: QS 600

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, ...Tel.: +49(0)881 183-0, Fax.: +49(0)881 183-420

Emergency telephone:
(001)-703-527-3887

2. Composition/information on ingredients

Chemical characterization: Toxic metallic liquid

Hazardous ingredients: Mercury

Hazard symbols: Toxic (T) and dangerous for the environment (N)

R-phrases: 23-33-50/53

Content: 100 %

CAS-No.: 7439-97-6

EINECS-No.: 231-106-7

3. Hazards identification

Toxic by inhalation. Danger of cumulative effects.

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First aid measures

After inhalation: Fresh air. If necessary apply mouth to mouth resuscitation or mechanical ventilation. Immediately summon doctor.

After skin contact: Wash off with plenty of water.

Remove contaminated clothing.

After eye contact: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Consult eye specialist.

After ingestion: Make injured person drink plenty of water. Induce vomiting, Administer activated charcoal (20-40 g in 10 % slurry). Immediately summon doctor.

WTW Safety Data Sheet

Identification of the substance/preparation

Quicksilver

5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	To suit environment.
<i>Unsuitable extinguishing media:</i>	No information available.
<i>Special risks:</i>	Vapours heavier than air. Development of hazardous vapours possible in the event of fire. Do not stay in dangerous zone without suitable chemical protection clothing and selfcontained breathing apparatus.
<i>Other information:</i>	Non combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid substance contact. Do not inhale vapours.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<i>Procedures for cleaning/absorption:</i>	Take up carefully. Rests are removed by mercury binding material (sulphur powder or better zinc powder). Forward for disposal.

7. Handling and storage

<i>Handling:</i>	Work under hood. Avoid generation of vapours.
<i>Storage:</i>	Tightly closed in a well ventilated place at room temperature. Accessible only for authorized persons.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK (Germany, max. workplace conc.) 0,01 ml/m ³ or 0,1 mg/m ³ mercury. BAT (Germany, biol. tolerance value) 50 ug/l (blood) mercury or 200 ug/l (urine)mercury
-------------------------------------	---

Personal protective equipment

<i>Respiratory protection:</i>	Required when vapours/aerosols are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves (nitrile rubber)
<i>Industrial hygiene:</i>	Wash hands and face after working with substance. Immediately change contaminated clothing. Do not eat or drink at workplace.

WTW Safety Data Sheet

Identification of the substance/preparation

Quicksilver

9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Silvery	<i>Odour:</i> Odourless
<i>pH-value</i>	°C	
<i>Melting temperature:</i>	-38°C	
<i>Boiling temperature:</i>	357°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i> upper:</i>	/	
<i>Density:</i>	13,55 g/cm ³	
<i>Vapour pressure:</i>	0,16 Pa at 20°C	
<i>Solubility in water:</i>	Insoluble	
<i>Thermal decomposition:</i>	/	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Strong heating
<i>Substances to be avoided:</i>	Acetylide, ammonia, amines, alkali metals, halogens, acids conc., carbides, halogen oxides.
<i>Hazardous decomposition products:</i>	Highly toxic vapours
<i>Further information:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	Quantitative data are not available.
<i>Further toxicological information:</i>	Mercury compounds have a cytotoxic and protoplasmatoxic effect. Symptoms: acute: contact with eye causes severe lesions. Ingestion and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract. (nausea, vomiting, abdominal pain etc.) drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic: inflammation of the mouth with loss of teeth. The principal signs manifest themselves in the CNS. (loss of memory, irritability, hallucinations,delirium)

12. Ecological information

<i>Ecotoxic effects:</i>	Mercury ions have a toxic and lethal effect for fishes. Hazard for drinking water. Do not allow to enter drinking water supplies, waste water, or soil.
--------------------------	---

WTW Safety Data Sheet

Identification of the substance/preparation

Quicksilver

13. Disposal considerations

Products: There are no uniform regulations for the disposal of chemicals or residues. The disposal is regulated through corresponding regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

Packaging: Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

14. Transport information

ADR/GGVSE: UN 2809 Quecksilber, 8 II

IMDG/GGVSee: UN 2809 Mercury, 8 II
EmS-No.: F-A, S-B

ICAO/IATA: UN 2809 Mercury, 8 II

Further information: None

15. Regulatory information

Labelling according to EC directives

<i>Symbol:</i>	Toxic (T) and dangerous for the environment (N)
<i>R-phrases:</i> 23-33 50/53	Toxic by inhalation. Danger of cumulative effects. Very toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<i>S-phrases:</i> 7-45-60-61	Keep container tightly closed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

German regulations

<i>Water pollution class;</i>	WGK: 3	Highly polluting substance
<i>Storage class VCI:</i>	6.1 B	
<i>Regulation on combustible liquids;</i>	VbF:	Non combustible.
<i>Other regulations:</i>	None	

WTW Safety Data Sheet

Identification of the substance/preparation

Quicksilver

16. Other information

Data sheet of the Chemical Professional Assoziation
M024 Mercury and its compounds
M051 Dangerous chemical substances

Date of issue:	15.07.2006
Supersedes edition of	18.02.2004
Reason for alteration:	General update

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.