

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

**Trade name: SPT0, SPT1, SPT2, SPT3, SPT5**

Revision date: 21.02.2015

Version: 02/2015 EN

## 1. Identification of the substance and of the company

### 1.1 Product identifier

Substance name: Hexasodium tungstate hydrate  
Index-No.: 074-001-00-X  
EC-No.: 412-770-9  
CAS-No.: 12333-13-0  
REACH-Registration No.: 01-2120061128-61-0000  
Synonyms: Natriummetawolframhydrate, Natriummetawolframmat, Natriumpolywolframmat, Sodium metatungstate, Sodium polytungstate hydrate, SPT

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

Relevant identified uses: For the preparation of aqueous heavy-liquids.

### 1.3 Details of the supplier of the safety data sheet

Supplier: TC-Tungsten Compounds  
Address: Tannenweg 2  
D-96271 Grub am Forst  
Competent person: Dr. Rainer Kamps  
Phone: +49 (0)9560-742  
Fax: +49 (0)9560-1707  
E-Mail: service@heavy-liquid.com

### 1.4 EMERGENCY TELEPHONE NUMBER

+49 (0) 228-19 240 (University of Bonn, Central Information against poisoning, 24 h)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:  
Acute Tox. 4 H302; Eye Dam. 1 H318; Aquatic Chronic 3 H412  
Classification according to Regulation 67/548/EEC or 1999/45/EC:  
Xn R22; Xi R41; R52-53  
Full text of R-, H- and EUH-phrases: see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard pictograms:



Signal word: Danger

Hazard statements:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## 3. Composition / information on ingredients

### 3.1 Substances

Substance name: Hexasodium tungstate hydrate  
Index-No.: 074-001-00-X  
EC-No.: 412-770-9  
CAS-No.: 12333-13-0  
REACH-Reg. No.: 01-2120061128-61-0000  
Purity: > 99 %

## 4. First aid measures

### 4.1 Description of first aid measures

Following inhalation: Take the patient into the fresh air. Symptomatic treatment.  
Following skin contact: Wash immediately with plenty of water.  
Following eye contact: Rinse eyes with water for at least 15 minutes, keeping the lids open. Consult a doctor.  
Following ingestion: In case of swallowing, drink plenty of water. Induce vomiting. Symptomatic treatment. Consult a doctor.

## 5. Fire fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, powder, water spray jet, water spray mist.

### 5.2 Special hazards arising from the substance or mixture

In case of fire generation of tungsten trioxide.

### 5.3 Advice for fire-fighters

Prevent fire-extinguishing water from contaminating surface or ground waters.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use the personal protective equipment listed in Chapter 8.

### 6.2 Environmental precautions

Prevent product from invading surface waters and soil. Do not empty into drains.

### 6.3 Methods and material for containment and cleaning up

Spilled material may be collected mechanically under avoidance of a dust, filled into appropriate containers.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Measures taken as a protection from fire and explosions:	Keep away from sources of ignition.
Measures taken as a protection from dust and aerosols:	Provide for sufficient ventilation and suction.
General hygiene measures	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a dry, cool and well-ventilated place. Keep away from food products and beverages.
Requirements for storage rooms and vessels:	Keep in sealed original containers.
Storage class:	13 (VCI)

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## 8. Exposure controls / personal protection

### 8.1 Personal protective equipment

Personal protective:	Wear protective clothing.
Eye protection:	Use safety glasses according to EN 166:2001.
Hand protection:	Wear protective gloves according to EN 374.
Respiratory protection:	While filling wear dust mask or respiratory equipment with filter type particle filter P1 according to DIN EN 143.

### 8.2 Environmental exposure controls

See section 6 and 7.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	solid or liquid (diluted in water)
Colour:	white solid powder or light yellow-greenish liquid
Odour:	neutral

#### Safety relevant basic data

pH-Value:	about 3 at 20 °C
Melting point/freezing point:	not determinable (decomposition)
Initial boiling point/boiling range:	not applicable (solid)
Flashpoint:	not applicable
Flammability (solid, gas):	not applicable
Explosive limits:	not relevant
Vapour pressure:	not relevant
Relative density:	5,47 g/cm <sup>3</sup> at 20 °C
Viscosity:	about 60 mPa*s (solution with density 3,1 g/cm <sup>3</sup> )
Bulk density:	about 1570 kg/m <sup>3</sup>
Solubility in water:	> 1000 g/l at 20 °C
Surface tension:	73,4 mN/m at 20 °C and 1254 mg/l
Partition coefficient n-octanol / water:	< -5,2 at 20 °C
Auto-ignition temperature:	not applicable
Explosive properties:	none
Oxidising properties:	none

## 10. Stability and reactivity

### 10.1 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.2 Possibility of hazardous reactions

There are no expected hazardous reactions for intended use.

### 10.3 Hazardous decomposition products

In case of fire generation of tungsten trioxide.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:	LD50 (oral, rat):	1715 mg/kg
	LD50 (dermal, rat):	> 2000 mg/kg
Skin corrosion/irritation:	rabbit (exposition 4 h):	not irritating
Eye damage/irritation:	rabbit:	causes serious eye damage
Sensitisation to respiratory tract/skin:	guinea pig	not sensitizing
Mutagenicity:	Ames-Test	not mutagenic

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## 12. Ecological information

### 12.1 Aquatic toxicity

Fish: LC50 (96 h) Cyprinus carpio: 420 mg/l  
Daphnie: EC50 (48 h) Daphnia magna: 83 mg/l  
Algae: EC50 (72 h) Desmodesmus subspicatus: > 79 mg/l

### 12.2 Persistence and degradability

Not applicable

## 13. Disposal considerations

Waste treatment methods: Collect all materials for reuse, if possible. Contact manufacturer. Waste can be disposed of in accordance with local regulations.  
Packaging disposal: Disposal under conditions approved by the local authority.  
Waste codes according to EWC / AVV: 51540

## 14. Transport information

### 14.1 Environmental threats

Label for environmentally hazardous substances  
ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:  yes /  no  
Marine pollutant:  yes /  no

### 14.2 Special precautions for user

No dangerous goods. Keep separate from foodstuffs.

## 15. Regulatory information

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

#### National regulations:

Water hazard classification: WGK 2 (according to VwVwS, annex 4)  
TRGS 900 (workplace limits): Tungsten compounds, soluble: 1 mg/m<sup>3</sup> E (DK, 1, 25)

## 16. Other information

Relevant R-, H- and EUH-phrases (number and full text) which are mentioned in section 1 - 15:

According to Regulation 67/548/EEC:	R22	Harmful if swallowed.
	R41	Risk of serious damage to eyes.
	R52-53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
According to Regulation (EC) No. 1272/2008:	H302	Harmful if swallowed.
	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.

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