

INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Tungsten (VI) chloride (Tungsten hexachloride)**
Product code: EO00251
Company: INTATRADE Chemicals GmbH
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive
R34: Causes burns.
Label elements
Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.



GHS05

Hazard pictograms

Signal word

Hazard statements

Precautionary statements

Danger

H314 Causes severe skin burns and eye damage.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.: 13283-01-7
EC-No.: 236-293-9

4. FIRST AID MEASURES

General information	Instantly remove any clothing soiled by the product.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
	Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly.
	Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek immediate medical advice.

5. FIREFIGHTING MEASURES

Suitable extinguishing agents	Use fire fighting measures that suit the environment.
Special hazards arising from the substance or mixture	Can be released in case of fire: Hydrogen chloride (HCl)
Advice for firefighters	Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up:	Use neutralizing agent. Dispose of 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 information on disposal.

7. HANDLING AND STORAGE

Handling	
Precautions for safe handling	Handle under dry argon. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	The product is not flammable
Conditions for safe storage, including any incompatibilities	
Storage	
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common storage facility:	Store away from water. Store under dry argon.
Further information about storage conditions:	Protect from humidity and keep away from water. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
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Control measures: Control measures with critical values that require immediate attention at the

lungsten and compounds (as w)	mg/m ³
ACGIH TLV	1; 3-STEEL (soluble compounds) 5; 10-STEEL (insoluble compounds)
Belgium TWA	5; 10-STEEL
Denmark TWA	5
Finland TWA	5
Korea TLV	5; 10-STEEL
Netherlands MAC-TGG	5
Norway TWA	5
Poland TWA	5
Russia	2-STEEL
Sweden NGV	5
Switzerland MAK-W	5
United Kingdom	TWA 5; 10-STEEL

Additional information:

Exposure controls

General protective and hygienic measures

No data

Personal protective equipment

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use breathing protection with high concentrations.

Eye protection:

Safety glasses

Tightly sealed safety glasses.

Full face protection

Face protection

Body protection:

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Crystalline

Colour: Blue

Black

Smell: Not determined

Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 275°C

Boiling point/Boiling range: 346.7°C

Sublimation temperature / start: Not determined

Flash point: Not applicable

Inflammability (solid, gaseous) Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Self-inflammability: Not determined.

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower: Not determined

Upper: Not determined

Steam pressure: Not applicable.

Density at 20°C 3.52 g/cm³

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable.

Solubility in / Miscibility with

Water: Reacts

Segregation coefficient

(n-octanol/water): Not determined.

Viscosity:

dynamic: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity	Chemical stability
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Possibility of hazardous reactions	Reacts with water
Incompatible materials:	Water/moisture
Hazardous decomposition products:	Hydrogen chloride (HCl) Chlorine Metal oxide

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity:	
Primary irritant effect:	
on the skin:	Corrosive effect on skin and mucous membranes. Irritant for skin and mucous membranes.
on the eye:	Strong corrosive effect. Irritant effect.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

Toxicity	
Acquatic toxicity:	No further relevant information available.
Persistence and degradability	No further relevant information available.
Behaviour in environmental systems:	
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)	
ADR/RID-GGVS/E Class:	8 (C2) Corrosive substances.
Kemler Number:	80
UN-Number:	3260

UN proper shipping name:	3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (tungsten (VI) chloride)
Limited quantities (LQ)	LQ23
Transport category	2
Tunnel restriction code	E
Maritime transport IMDG/GGVSea:	
IMDG/GGVSea Class:	8
UN Number:	3260
Label	8
Packaging group:	II
Marine pollutant:	No
Segregation groups	Acids
Correct technical name:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (tungsten (VI) chloride)
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class:	8
UN/ID Number:	3260
Label	8
Packaging group:	II
Correct technical name:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (tungsten (VI) chloride)
UN "Model Regulation":	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II
Special precautions for user	Warning: Corrosive substances.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.
Hazard pictograms	GHS05
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations	
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.