# Material Safety Data Sheet Tungsten (VI) chloride

ACC# 97196

# Section 1 - Chemical Product and Company Identification

MSDS Name: Tungsten (VI) chloride

Catalog Numbers: AC200300000, AC200300100, AC200300500, AC200301000, AC221430000, AC221430100 AC221430100 Synonyms: None Known.

Company Identification:
Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

# Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
13283-01-7	Tungsten(VI) chloride	99	236-293-9

## Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: dark gray-violet crystalline powder.

**Danger!** Causes eye and skin burns. Causes digestive and respiratory tract burns. Water-reactive. Contact with water liberates toxic gas. Harmful if swallowed. Air sensitive.

Target Organs: Respiratory system, eyes, skin, mucous membranes.

### **Potential Health Effects**

**Eye:** Causes eye burns. **Skin:** Causes skin burns.

**Ingestion:** Harmful if swallowed. Causes gastrointestinal tract burns.

Inhalation: Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the

larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic: Chronic exposure may cause effects similar to those of acute exposure.

# Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Material will react with water and may release a flammable and/or toxic gas.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER! Contact professional fire-fighters immediately.

Flash Point: Not available.

**Autoignition Temperature:** Not available. **Explosion Limits, Lower:**Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 2; Special Hazard: -W-

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not expose spill to water. Do not let this chemical enter the environment.

# Section 7 - Handling and Storage

**Handling:** Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. **Storage:** Store in a cool, dry place. Store in a tightly closed container. Corrosives area. Water free area.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tungsten(VI) chloride	1 mg/m3 TWA (as W) (listed under Tungsten, soluble compounds).3 mg/m3 STEL (as W) (listed under Tungsten, soluble compounds).	1 mg/m3 TWA (as W) (listed under Tungsten, soluble compounds).	none listed

OSHA Vacated PELs: Tungsten(VI) chloride: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment** 

Eyes: Wear chemical splash goggles and face shield.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder **Appearance:** dark gray-violet

Odor: chlorine-like **pH:** Not available.

Vapor Pressure: 43 mmHg @ 215 C Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: Not available.

**Boiling Point:** 347 deg C @ 760.00mm Hg **Freezing/Melting Point:**275 deg C

Decomposition Temperature: Not available.

Solubility: Reacts.

Specific Gravity/Density:3.5200g/cm3

Molecular Formula:CI6W Molecular Weight:396.57

# Section 10 - Stability and Reactivity

**Chemical Stability:** Combines vigorously or explosively with water. Reacts with water to form hydrogen chloride, a toxic and corrosive gas.

Conditions to Avoid: Incompatible materials, dust generation, exposure to moist air or water.

**Incompatibilities with Other Materials:** Water, strong bases, strong acids, strong oxidizing agents, amines, acid chlorides, strong reducing agents.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide, chlorine.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS#:

CAS# 13283-01-7: YO7710000

LD50/LC50: CAS# 13283-01-7:

Oral, mouse: LD50 = 1.08 gm/kg; Oral, rat: LD50 = 1.8 gm/kg;

Carcinogenicity:

CAS# 13283-01-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found Teratogenicity: No information found Reproductive Effects: No information found Mutagenicity: No information found Neurotoxicity: No information found

# Section 12 - Ecological Information

Ecotoxicity: Fish: Pseudomonas putida:

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG	
Shipping Name:	CORROSIVE SOLID, WATER-REACTIVE, N.O.S. (Tungsten (VI) chloride)	CORROSIVE SOLID, WATER-REACTIVE, N.O.S.	
Hazard Class:	8	8	
UN Number:	UN3096	UN3096	
Packing Group:	II	II	

# Section 15 - Regulatory Information

### **US FEDERAL**

#### TSCA

CAS# 13283-01-7 is listed on the TSCA inventory.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

## **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

## **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

# SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

## Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### USHA

None of the chemicals in this product are considered highly hazardous by OSHA.

## STATE

CAS# 13283-01-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:

## C

## Risk Phrases:

- R 22 Harmful if swallowed.
- R 29 Contact with water liberates toxic gas.
- R 34 Causes burns.

### Safety Phrases:

- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 8 Keep container dry.

WGK (Water Danger/Protection)

CAS# 13283-01-7: No information available.

Canada - DSL/NDSL

CAS# 13283-01-7 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D1B, E, B6.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

### **Canadian Ingredient Disclosure List**

CAS# 13283-01-7 is not listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997 **Revision #5 Date:** 5/16/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.