

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

TUNGSTEN (VI) OXIDE LR (TUNGSTEN TRIOXIDE)

1 - Chemical Product

MSDS Name:Antimony Silicate (Tungsten Doped)
 Synonym:None

Cas NO:1314-35-8

Product Coad: T0202000250

Molecular Formula: Mixture
 Molecular Weight: 0

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
1314-35-8	Tungsten trioxide	5	215-231-4

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. Contact with combustible material may cause fire.

Potential Health Effects

Eye:Causes eye irritation. May cause permanent corneal opacification.

May cause chemical conjunctivitis.

Skin:Causes skin irritation.

Ingestion:May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances. May cause central nervous system depression.

Inhalation:Causes respiratory tract irritation. May cause cardiac abnormalities. Inhalation at high concentrations may cause CNS depression and asphyxiation. May cause acute pulmonary edema, asphyxia, chemical pneumonitis, and upper airway obstruction caused by edema.

Chronic:Effects may be delayed.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. 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.

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. Use water with caution and in flooding amounts.

Oxidizer. Greatly increases the burning rate of combustible materials. Some oxidizers may react explosively with hydrocarbons(fuel). May accelerate burning if involved in a fire. Containers may explode when heated. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

Contact professional fire-fighters immediately. For small fires, do NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.

6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks:Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill.

7 - HANDLING and STORAGE

Handling:Wash thoroughly after handling. Minimize dust generation and accumulation. Keep container tightly closed. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Avoid ingestion and inhalation. Use with adequate ventilation.

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Wash clothing before reuse.

Storage: Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits CAS# 1314-35-8: United Kingdom, WEL - TWA: (listed as tungsten, insoluble compound) 5 mg/m³ TWA (as W) United Kingdom, WEL - STEL: (listed as tungsten, insoluble compounds): 10 mg/m³ STEL (as W) Belgium - TWA: (listed as tungsten, insoluble compounds): 5 mg/m³ (as W) Belgium - STEL: (listed as tungsten, insoluble compounds): 10 mg/ VLE (as W) Malaysia: (listed as tungsten, insoluble compounds): 5 mg/m³ TWA W) Netherlands: (listed as tungsten, insoluble compounds): 5 mg/m³ M (as W) Russia: (listed as tungsten): 6 mg/m³ TWA Spain: (listed as tungsten, insoluble compounds): 5 mg/m³ VLA-ED W) Spain: (listed as tungsten, insoluble compounds): 10 mg/m³ VLA-EC W) CAS# 1314-60-9: United Kingdom, WEL - TWA: (listed as antimony compounds): 0.5 mg TWA (except stibine, as Sb) United Kingdom, WEL - STEL: (listed as antimony compounds): 1.5 m STEL (except stibine, as Sb) United States OSHA: 0.5 mg/m³ TWA (listed under Antimony). 0.5 mg TWA (as Sb) (listed under Antimony compounds).

Belgium - TWA: (listed as antimony compounds): 0.5 mg/m³ VLE (as France - VME: (listed as antimony compounds): 0.5 mg/m³ VME (as S Germany: (listed as antimony compounds): 0.5 mg/m³ VME (as Sb) Japan: (listed as antimony compounds): 0.1 mg/m³ OEL (except stib as Sb) Malaysia: (listed as antimony compounds): 0.5 mg/m³ TWA (as Sb) Netherlands: (listed as antimony compounds): 0.5 mg/m³ MAC (as Sb Russia: 2 mg/m³ TWA Russia: (listed as antimony): 0.2 mg/m³ STEL Spain: (listed as antimony compounds): 0.5 mg/m³ VLA-ED (except antimony hydride, as Sb) CAS# 112926-00-8: Belgium - TWA: 10 mg/m³ VLE Malaysia: 10 mg/m³ TWA Spain: 10 mg/m³ VLA-ED Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate 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.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: yellow-orange

Odor: no odor

pH: (5% aq. slurry): 2-8

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: > 1000 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Insoluble.

Specific Gravity/Density:

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat, combustible materials, reducing agents.

Incompatibilities with Other Materials: Reducing agents.

Hazardous Decomposition Products:

Irritating and toxic fumes and gases, silicon dioxide, antimony/antimony oxides.

Hazardous Polymerization: Has not been reported

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 1314-35-8: YO7760000 CAS# 1314-60-9: CC6300000 CAS# 112926-00-8: VV7315000 LD50/LC50:

CAS# 1314-35-8: Oral, rat: LD50 = 1059 mg/kg.

CAS# 1314-60-9.

CAS# 112926-00-8.

Carcinogenicity:

Tungsten trioxide - Not listed by ACGIH, IARC, or NTP.

Antimony pentoxide (Sb₂O₅) - Not listed by ACGIH, IARC, or NTP.

Silica gel, pptd., cryst.-free, hydrated form - Not listed by ACGIH, IARC, or NTP.

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Other: See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

14 - TRANSPORT INFORMATION

IATA

Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.

Hazard Class: 6.1

UN Number: 1549

Packing Group: III

IMO

Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.

Hazard Class: 6.1

UN Number: 1549

Packing Group: III

RID/ADR

Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.

Hazard Class: 6.1

UN Number: 1549

Packing group: III

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi O

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 1314-35-8: 1

CAS# 1314-60-9: 1

CAS# 112926-00-8: 0

Canada

CAS# 1314-35-8 is listed on Canada's DSL List.

CAS# 1314-60-9 is listed on Canada's DSL List.

CAS# 112926-00-8 is listed on Canada's DSL List.

CAS# 1314-35-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 1314-60-9 is not listed on Canada's Ingredient Disclosure List.

CAS# 112926-00-8 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 1314-35-8 is listed on the TSCA inventory.

CAS# 1314-60-9 is listed on the TSCA inventory.

CAS# 112926-00-8 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form

is on the inventory (40CFR720.3(u)(2)).

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16. Other Information**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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