SECTION 1. IDENTIFICATION

Product Name: Tungsten(V) Ethoxide

Product Number: All applicable American Elements product codes, e.g. W5-ETOX-01-LIQ

CAS #: 26143-11-3

Relevant identified uses of the substance: Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
H315 Skin Irrit. 2 R38, R36/38, R36/37/38, R37/38
H319 Eye Irrit. 2 R36, R36/37, R36/38, R36/37/38
H335 STOT SE 3a R37, R36/37, R36/37/38, R37/38

Label elements

Signal Word Warning
Hazard Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Phrases
P264 Wash hands thoroughly after handling.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
Other Hazards
Additional precautionary phrases are located throughout the safety data sheet

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Tungsten(v)ethoxide, 95%
Assay: 100%
CAS Number: 26143-11-3

SECTION 4. FIRST AID MEASURES

Description of first aid measures
Skin Contact
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
Eye Contact
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.
Ingestion - Wash out mouth with water.
Inhalation - P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms and effects: No symptoms.
Indication of any immediate medical attention
P312: Call a POISON CENTER or doctor/physician if you feel unwell. No additional measures required

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media
Suitable: Carbon dioxide. Dry chemical powder. Water.
Unsuitable: Do not use water with a full water jet
Special Hazards arising from the substance or mixture
In combustion toxic fumes may form.
Advice for Fire Fighters
Wear protective clothing to prevent contact with skin and eyes.
Wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Refer to section 8 of SDS for personal protection details.
Environmental Precautions
Do not discharge into drains or rivers.
Methods & Materials
Mix with sand or vermiculite.
Transfer to a suitable container.
Preventing the occurrence of secondary hazards.
No Special Measures Required

SECTION 7. HANDLING AND STORAGE

Personal Precautions
Safe Handling
Handle in fume hood.
Wash hands immediately after contamination.
P264: Wash hands thoroughly after handling.
Protection against explosions and fires
P362: Take off contaminated clothing and wash before reuse. Normal measures for preventive fire protection
Conditions for safe storage, including any incompatibilities
Managing Storage Risks
Keep container tightly closed. Store in cool, well ventilated area.
Storage Controls: No special requirements
Maintaining Integrity: Keep in tightly closed container in cool area away from direct sunlight or heat sources.
Other advice:
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
Specific End Uses
The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

SECTION 8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Control Parameters
No Data Available
Exposure Controls
General protective and hygiene measures
P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling Wash hands during breaks and at the end of handling the material Immediately remove any contaminated clothing.
Engineering measures: P271: Use only outdoors or in a well-ventilated area. Ensure there is sufficient ventilation of the area.
Eye / Face Protection: Safety Glasses.
Hand protection: Protective gloves.
Respiratory protection: P261: Avoid breathing dust/fume/gas/mist/vapors/spray. Respiratory protection not required
Skin protection: Protective clothing.
Other personal protection advice: no data

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties
Appearance: Purple-black liquid
Odor: Characteristic
Odor threshold: No Data Available
PH: No Data Available  
Melting point / Freezing point: <20°C  
Initial boiling point and boiling range: 110-115°C @ 1mm  
Flash point: >110°C  
Evaporation rate: No Data Available  
Flammability(solid, gas): No Data Available  
Upper/lower flammability or explosive limits: No Data Available  
Vapor pressure: 20°: <0.1mm  
Vapor density: No Data Available  
Relative density: No Data Available  
Solubility(ies): No Data Available  
Partition coefficient: n-octanol/water: No Data Available  
Auto-ignition temperature: No Data Available  
Decomposition temperature: No Data Available  
Viscosity: No Data Available  
Explosive properties: No Data Available  
Oxidising properties: No Data Available  
Other Information  
No additional information available

SECTION 10. STABILITY AND REACTIVITY

Reactivity  
Reacts with water.  
Stability  
Stable under normal conditions.  
Possibility of Hazardous Reactions  
Material decomposes slowly in contact with moist air or with water liberating ethanol; TLV(TWA) = 1000ppm  
Conditions to Avoid  
no specific conditions to avoid  
Incompatible Materials  
Strong oxidizing agents.  
Hazardous Decomposition Products  
In combustion emits toxic fumes.  
In combustion emits toxic fumes of ethanol  
In combustion emits toxic fumes of organic acid vapors  
In combustion emits toxic fumes of tungsten oxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Information  
Acute Toxicity: no data  
Skin corrosion/irritation: irritant for skin and mucous membranes  
Serious eye Damage/irritation: irritant effect  
Respiratory or skin sensitisation: No sensitizing effect known  
Germ Cell mutagenicity: not known  
Carcinogenicity: not known  
Reproductive toxicity: not known  
STOT-single exposure: not known  
STOT-repeated exposure: not known
Aspiration hazard: not known
Additional
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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
not known
Persistence and degradability
not known
Bio-Accumulative Potential
not known
Mobility and Soil
not known
Results of PBT & vPvB assessment
not known
Other adverse effects
not known

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Disposal Operations:
Consult official regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.
Disposal of Packaging:
Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Air (ICAO)
None Hazardous
Road (ADR)
None Hazardous
Sea (IMDG)
None Hazardous

SECTION 15. REGULATORY INFORMATION

Safety, health, environmental and national regulations:
product is not subject to any additional regulations or provisions
Safety Assessment
No Chemical Safety Assessment
SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.