

Trimethylarsine			<u>Pricing ></u>
Linear Formula	As(0	CH ₃) ₃	
Pubchem CID 689		78	
MDL Number MFC		CD00014838	
EC No.	209	·815-8	
IUPAC Name	trimethylarsane		
Beilstein/Reaxys No.	1730780		
SMILES	[As](C)(C)C		
Inchl Identifier	InChI=1S/C3H9As/c1-4(2)3/h1-3H3		
Inchl Key	HTDIUWINAKAPER-UHFFFAOYSA-N		
Signal Word		Danger	
Hazard Statements		H301-H331-H410	
Hazard Codes		F,T,N	
Risk Codes		11-14/15-23/25-50/53	
Safety Statements		1/2-20/21-2-45-60-61	
RTECS Number		CH8800000	
Transport Information		UN 3130 4.3/PG 2	
WGK Germany		3	
GHS Pictograms		GHS0 GHS0 Cross	2 Flame 6 Skull and bones 8 Health d

Create Printable PDF

SAFETY DATA SHEET

Date Accessed: 05/18/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #593-88-4

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: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS02 Flame Flam. Liq. 3 H226 Flammable liquid and vapor. GHS06 Skull and crossbones Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin. Acute Tox. 3 H331 Toxic if inhaled. GHS08 Health hazard Muta. 1A H340 May cause genetic defects. Carc. 1A H350 May cause cancer. Label elements GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



GHS02 GHS06 GHS08 Signal word: Danger Hazard-determining components of labeling: Trimethylarsine, 99% Hazard statements H226 Flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with

skin or if inhaled. H340 May cause genetic defects. H350 May cause cancer. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P231 Handle under inert gas. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P422 Store contents under inert gas. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2Fire = 2Reactivity = 0HMIS-ratings (scale 0 - 4) Health = *2Fire = 2Reactivity = 0Other hazards Results of PBT and vPvB assessment PBT: N/A vPvB: N/A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS # / Substance Name: 593-88-4 Trimethylarsine, 99% Identification number(s) EC number: 209-815-8

SECTION 4. FIRST AID MEASURES

Description of first aid measures General information: Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

If inhaled: Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation. In case of skin contact: Immediately wash with soap and water; rinse thoroughly. In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician. If swallowed: Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delaved No data available Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture No data available Advice for firefighters Protective equipment: Mouth respiratory protective device.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Keep unprotected persons away. Environmental precautions: Inform respective authorities in case of seepage into water courses, or sewage systems. Methods and materials for containment and cleanup: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose 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 disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Handling: Handle under inert gas. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. Conditions for safe storage, including any incompatibilities Storage: Keep cool. Store contents under inert gas. Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. Recommended storage temperature: Store at temperatures not exceeding 4 °C. Specific end use(s) No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7. **Control parameters** Components with limit values that require monitoring at the workplace: Not required. Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure userespiratory protective device that is independent of circulating air. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies by manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance: Form: Liquid Color: Colorless Odor: Pungent Odor threshold: Not determined. pH: Not determined. Melting point/Melting range: -87.3 °C (-125 °F) Boiling point/Boiling range: 51 °C (124 °F) Flash point: 38 °C (100 °F) Flammability (solid, gas): N/A Ignition temperature: Decomposition temperature: Not determined. Autoignition: Not determined. Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. Explosion limits: Lower: Not determined. Upper: Not determined. Vapor pressure: 320mm (25 hPa (240mm (19 mm Hg) Density at 20 °C (68 °F): 1.124 g/cm³ (9.38 lbs/gal)

Relative density: Not determined. Vapor density: Not determined. Evaporation rate: Not determined. Solubility in Water (H₂O): Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. Organic solvents: 0.0 % Other information No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No data available Incompatible materials: No data available Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: Carcinogenic categories IARC (International Agency for Research on Cancer) Substance is not listed. NTP (National Toxicology Program) Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Aquatic toxicity: No data available Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Ecotoxical effects: Remark: Very toxic for fish Additional ecological information: General notes: Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms Results of PBT and vPvB assessment PBT: N/A vPvB: N/A Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to enter drains, sewage systems, or other water courses. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number DOT, IMDG, IATA UN1992 UN proper shipping name DOT Flammable liquids, toxic, n.o.s. IMDG, IATA FLAMMABLE LIQUID, TOXIC, N.O.S. Transport hazard class(es) DOT Class 3 Flammable liquids Label 3+6.1 IMDG, IATA

Class **3** Flammable liquids Label 3+6.1Packing group DOT, IMDG, IATA ш Environmental hazards: Marine pollutant: No Special precautions for user Warning: Flammable liquids EMS Number: F-E,S-D Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A Transport/Additional information: DOT **Quantity limitations** On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN "Model Regulation": UN1992, Flammable liquids, toxic, n.o.s., 3 (6.1), III

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara Section 355 (extremely hazardous substances): Substance is not listed. Section 313 (Specific toxic chemical listings): Substance is not listed. TSCA (Toxic Substances Control Act): Substance is listed. **Proposition 65** Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive toxicity for females: Substance is not listed. Chemicals known to cause reproductive toxicity for males: Substance is not listed. Chemicals known to cause developmental toxicity:

Substance is not listed. Carcinogenic categories EPA (Environmental Protection Agency) Substance is not listed. TLV (Threshold Limit Value established by ACGIH) Substance is not listed. NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

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 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.