

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Arsenic (III) Ethoxide**

FORMULA: $C_6H_{15}AsO_3$

CAS NO: 3141-12-6

SYNONYMS: Triethoxyarsane, Triethoxyarsine, Arsenic Ethylate, Arsenic Ethoxide, Triethyl Arsenite, Arsenic Triethoxide, Arsenous acid triethyl ester.

MANUFACTURER:

Wonik Materials North America
N115 W19392 EDISON DRIVE
GERMANTOWN, WI 53022

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-703-741-5500

FOR TECHNICAL INFORMATION CONTACT: 1-262-293-0251

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H226	Flammable liquid and vapour
H301	Toxic if swallowed
H331	Toxic if inhaled
H410	Very toxic to aquatic life with long lasting effects

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

Precautionary Phrases

Arsenic (III) Ethoxide

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking
P231 + P232	Handle under inert gas. Protect from moisture.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse Mouth
P391	Collect spillage. Hazardous to the aquatic environment.
P405	Store locked up
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P412	Do not expose to temperatures exceeding 50 deg C/122 deg F
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Ratings (SCALE 0-4):

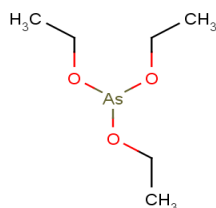
Health: 3

Flammability: 3

Reactivity: 2

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_6H_{15}AsO_3$



Molecular Weight: 210.1

CHEMICAL NAME	CAS#
Arsenic (III) Ethoxide	3141-12-6

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN EXPOSURE: Immediately remove any clothing soiled by the product. After contaminated clothing has been completely removed, remove breathing apparatus. Immediately wash with water and soap and rinse thoroughly. Immediately seek medical advice.

INHALATION: If required, provide artificial respiration for irregular breathing or respiratory arrest. Supply fresh air. Keep patient warm. Immediately seek medical advice.

INGESTION: Do not induce vomiting. Immediately call for medical help and medical advice.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable CO₂, sand, extinguishing powder.

Unsuitable DO NOT USE WATER!

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Toxic metal oxide fume, carbon monoxide, and carbon dioxide.

ADVICE FOR FIRE FIGHTERS

Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.

ENVIRONMENTAL PRECAUTIONS

Arsenic (III) Ethoxide

Do not allow material to be released to the environment without proper governmental permits.

METHODS AND MATERIALS

Absorb with liquid-binding material such as sand, diatomite, acid binders, universal binders, and sawdust. Use neutralizing agents. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Keep away from ignition sources.

SECTION 7 HANDLING AND STORAGE

PERSONNEL PRECAUTIONS

Keep away from all ignition sources. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

CONDITIONS FOR SAFE STORAGE

Store under dry inert gas. MOISTURE SENSITIVE. Keep container tightly sealed. Store away from oxidizing agents. Store away from water/moisture. Do not store together with acids.

INCOMPATIBILITIES:

Water/Moisture, Oxidizing agents, and Acids

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Use a properly operating chemical fume hood designed for hazardous chemicals.

All usual precautionary measures should be used when handling this product. Keep away from food and beverages. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store all protective clothing separately.

Avoid contact with eyes and skin.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use suitable respirator when high concentrations are present.

EYE/FACE PROTECTION: Use safety glasses, tightly sealed goggles, and full-face protection.

SKIN PROTECTION: Use proper protection such as impervious gloves. Also use protective work clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless Liquid

MELTING POINT/ FREEZING POINT: Not available

BOILING POINT: 166 deg C

DECOMPOSITION: Not available

FLASH POINT: 49 deg C

VAPOR PRESSURE: Not available

DENSITY AT 20 deg C: 1.21 g/ml

SOLUBILITY IN WATER: Reacts

ODOR: Not available

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not available

SECTION 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Decomposition will not occur if used and stored according to specifications.

INCOMPATIBILITY: Water/Moisture. Oxidizing agents. Acids.

DECOMPOSITION PRODUCTS: Toxic metal oxide fumes, carbon monoxide, and carbon dioxide.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY

May cause irritation on skin and eyes.

CHRONIC TOXICITY

Acute arsenic poisoning from ingestion results in marked irritation of the stomach and intestines with nausea, vomiting and diarrhea. In severe cases, the vomit and stools are bloody and the patient goes into collapse and shock with weak, rapid pulse, cold sweats, coma and death.

SUBACUTE TO CHRONIC TOXICITY

Ethyl alcohol, if formed, is a central nervous system depressant. Ingestion leads to drowsiness, lassitude, loss of appetite and inability to concentrate.

ADDITIONAL TOXICOLOGICAL INFORMATION

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a casual association between exposure and cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.

NTP-1: Known to be carcinogenic: sufficient evidence from human studies. Carcinogen as defined by OSHA.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.

SECTION 12 ECOLOGICAL DATA

COMPONENT ANALYSIS –AQUATIC TOXICITY

Very toxic for fish

GENERAL INFORMATION: Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Do not allow material to be released to the environment without proper governmental permits. Very toxic for aquatic organisms.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all product and materials according to the state, local, or national regulations.

SECTION 14 TRANSPORTATION DATA

Toxic Liquid, Flammable, Organic, n.o.s. (Arsenic (III) ethoxide)

Class 6.1 (3)

UN2929

PG II

IATA and DOT Regulated

Marine Pollutant: YES

SECTION 15 REGULATORY INFORMATION

NATIONAL REGULATIONS

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

INFORMATION ABOUT LIMITATION OF USE

For use only by technically qualified individuals.

This product contains arsenic and is subject to the reporting requirements of section 313 or the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Wonik Materials North America makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 04/13 MSDS DEPT