



Centre Anti-Poison pour le Québec: (800) 463-5060

Tél. (Qc): (418) 660-8666 / 800-890-8666


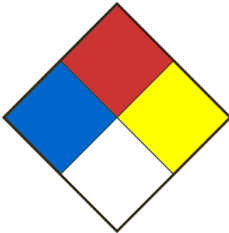
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ARSENIC (III) OXIDE (PRIMARY STD)		Product Use Laboratory use	
Chemical formula As ₂ O ₃		Product code AR-0163	Molar weight 197,84
Chemical name / Commercial name / Synonymous ARSENIC (III) OXIDE, OXYDE D'ARSENIC, OXYDE D'ARSENIC (III), ACIDE ARSENIUEUX, OXYDE ARSENIUEUX, ANHYDRIDE ARSENIUEUX, SESQUIOXYDE D'ARSENIC, ARSENIC BLANC, ARSENLITE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 11/17/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Skin corrosion/irritation - Skin corrosion category 1B</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Carcinogenicity category 1A</p> <p>Acute toxicity - Oral category 2</p>
Signal Word	DANGER
Hazards statements (H)	<p>H300 Fatal if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H350 May cause cancer.</p>
Precautionary statements (P)	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p>
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p>Health 3</p> <p>Fire 0</p> <p>Reactivity 0</p> <p>Special danger</p>

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Trioxyde d'arsenic	1327-53-3	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. Seek immediate medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. Seek immediate medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. If the victim is not breathing, give artificial respiration. Seek immediate medical attention.
Ingestion	If the person is conscious, drink water and induce vomiting. The use of dimercaprol or British Anti Lewisite (BAL) as an antidote may be recommended in the case of poisoning with some heavy metals, but first notify the medical staff. Get immediate medical help.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Chemical burns of the skin. Eyes irritation. Nausea and vomiting. Pneumonia. Gastrointestinal disorders. Central nervous system depression. Breathing difficulties. Hepatotoxic effects. Nephrotoxic effects. Eye damage. Cough. Headaches. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of poisoning, the following can be administered as an antidote: Dimercaprol or British Lewisite (BAL). Ipecac. Activated charcoal. In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Arsenic oxides. Arsine.
Special fire and explosion hazards	Arsenic trioxide can react violently on contact with the following products: chlorine trifluoride, fluorine, oxygen difluoride, mercury and sodium chlorate. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personnel precautions, protective equipment	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Use a respirator as needed. Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains. Discharge into the environment must be avoided.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products.
Methods of handling	Very harmful product. Ensure good ventilation. Use only under a fume hood. Avoid ingestion and inhalation. Avoid contact with the skin, eyes and clothes. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	No.-CAS	Control parameters	Value	Basis
Arsenic trioxide	1327-53-3	DIVS	10 mg/m ³ (expressed in As)	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Remarks: Carcinogenic effect suspected in humans				
		TWA	0.01 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks: Confirmed Human Carcinogen (means that the agent is carcinogenic to humans)				
		TWA	0.01 mg/m ³	Canada. British Columbia OEL
IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans. ACGIH 'A1' applies to those substances confirmed as human carcinogens based on the weight of evidence from epidemiological studies				
		TWA	0.01 mg/m ³	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
		STEL	0.05 mg/m ³	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.

Data source	Sigma-Aldrich (Millipore Sigma) CNESST
Ventilation	Fan.
Respiratory	If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Appearance	Poudre blanc-gris clair.
Odour	Inodore.
Odour threshold	Data not available
pH	Donnée non-disponible.
Melting point / Freezing point	274-313°C
Initial boiling point	460°C (subl).
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	0.000001 hPa à 66 °C.
Vapour density	Data not available
Relative density	3.738g/cm ³
Solubility	Peu soluble dans l'eau (17-37g/L à 20°C). Insoluble dans l'alcool, le chloroforme et l'éther.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	May decompose on exposure to moist air or water.
Possibility of hazardous reactions	Danger of explosion with: Aluminum, magnesium, zinc. Possibility of violent reactions with: halogens, hydrogen halides, strong reducing agents, bromine, fluorine, halogen-halogen compounds, hydrogen fluoride, nitrates, chlorates, mercury.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	This product may decompose if exposed to moisture from the air or water.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong acids, tannic acid, alkalis, chlorine trifluoride, rubidium carbide, active metals (aluminum, iron, magnesium, manganese, sodium, zinc, etc.), fluorine, bromine and other halogens, and hydrogen halides, hydrogen fluoride, oxygen difluoride, mercury, halogens, reducing agents, herbal infusions and decoctions, heat and humidity.
Hazardous decomposition products	Toxic vapors of arsenic oxides. Arsine.

SECTION 11 - TOXICOLOGICAL INFORMATION

ARSENIC (III) OXIDE (PRIMARY STD)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Damage to the lungs, chest pain, cough, dyspnea, shortness of breath, headache, dizziness, erythema, nausea and vomiting, convulsions, hypotension, tachycardia, chemical pneumonia and pulmonary edema which can lead to death.
Acute toxicity (Ingestion)	Irritation and burning of mucous membranes. Dysphagia, haemorrhagic gastroenteritis, abdominal pain, cramps, profuse diarrhea, headache, dizziness, nausea and vomiting, tachycardia, convulsions, hypotension, unconsciousness, coma and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, skin sensitization, liver and kidney damage, chest pain, cough, dyspnea, headache, dizziness, confusion, irritability, erythema, sweating, salivation, taste of garlic in mouth, anemia, fatigue, tachycardia, weight loss and loss of appetite, convulsions, nausea and vomiting. Prolonged exposure to this product is likely to cause cancer. Is recognized as a carcinogen (class 1) by IARC. Possible skin sensitization.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 14.6 mg/kg. LD50 Dermal: Data not available.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Flow-through test - Pimephales promelas (fathead minnow) - 12.6 mg/L - 96h.
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential	Bioaccumulation - Lepomis cyanellus - Bioconcentration factor (BCF): 236.
Mobility in soil	Data not available.
Other adverse effects	Very toxic to aquatic life with long lasting effects. Do not flush into surface water or sanitary sewer system. The product must not contaminate groundwater.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1561
UN Proper shipping name	TRIOXYDE D'ARSENIC
Transport hazard class(es)	6.1 Toxic substances
Packing group	II
Limited quantity index	0,5kg
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Skin corrosion/irritation - Skin corrosion category 1B Serious eye damage/eye irritation - Serious eye damage category 1 Carcinogenicity category 1A Acute toxicity - Oral category 2
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SECTION 16 - OTHER INFORMATION

Further information

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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