








EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)
 (CAN) CANUTEC : 1(613) 996-6666 (24hrs)
 (USA) Anachemia : 1(518) 297-4444
 (CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: D-1A D-2A		TDG CLASS: 6.1 PIN: UN1664 PG: II
 	   	

Section I. Product Identification and Uses

Product name	O-NITROTOLUENE	CI#	Not available.
Chemical formula	CH3C6H4NO2	CAS#	88-72-2
Synonyms	O-Methylnitrobenzene, 2-Methylnitrobenzene, 2-Nitrotoluene, AC-6785, 64170	Code	AC-6785
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	137.14
Material uses	For laboratory use only.		
		Supersedes	

Section II. Ingredients

Name	CAS #	%	TLV
1) O-NITROTOLUENE	88-72-2	99+	Exposure limits: ACGIH TWA 2 ppm (11 mg/m3) (skin)

Toxicity values of the hazardous ingredients

O-NITROTOLUENE:
 ORAL (LD50): Acute: 891 mg/kg (Rat). 970 mg/kg (Mouse). 1750 mg/kg (Rabbit).
 VAPOR (LC50): Acute: 790 mg/m3 (Rat). 328 mg/m3 (Mouse).

Section III. Physical Data

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Physical state and appearance / Odor	Yellow-green liquid.
pH (1% soln/water)	Not available.
Odor threshold	Not available.
Percent volatile	Not available.
Freezing point	-4 to -3°C
Boiling point	225°C
Specific gravity	1.163 (Water = 1)
Vapor density	4.73 (Air = 1)
Vapor pressure	0.2 (0.5) mm Hg @ 25°C (38°C)
Water/oil dist. coeff.	Not available.
Evaporation rate	Not available.
Solubility	Very slightly soluble in cold water.

Section IV. Fire and Explosion Data

Flash point	CLOSED CUP: 106°C
Flammable limits	LOWER: 2.2%
Auto-ignition temperature	304°C
Fire degradation products	Oxides of carbon and nitrogen.
Fire extinguishing procedures	Use DRY chemical, carbon dioxide, or water spray. Water or foam may cause frothing. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water.
Fire and Explosion Hazards	May explode when heated. May be shock sensitive. Vapor forms explosive mixture with air. Contact with oxidizers may cause fire and/or explosion. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Ingestion and inhalation. Eye contact. Skin contact. Skin absorption.
Effects of Acute Exposure	May be fatal by ingestion, inhalation or skin absorption. Target organs: blood, central nervous system, liver, kidneys, spleen, skin, cardiovascular system, gastrointestinal system, respiratory system, reproductive system. 200 ppm (O-NITROTOLUENE) is immediately dangerous to life or health.
Eye	Causes irritation.
Skin	Causes skin irritation. Liquid can be absorbed in toxic amounts through intact skin.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. May cause headache, nausea, vomiting, weakness, dizziness, ataxia, dyspnea, tachycardia, anemia, methemoglobinemia, cyanosis and death. Acute effects may be delayed.
Ingestion	Highly toxic. See inhalation.

Section V. Toxicological Properties

Effects of Chronic Overexposure The substance is toxic to blood. Carcinogen. Repeated or prolonged exposure to the substance can produce target organs damage. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Discard contaminated clothing and shoes.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion If conscious, wash out mouth with water. Never give anything by mouth to an unconscious or convulsing person. Call a physician.

Section VII. Reactivity Data

Stability Unstable. May be heat and shock sensitive. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, shock.

Hazardous decomp. products Not available.

Incompatibility Oxidizing agents, acids, bases, reducing agents, sulfuric acid, alkalis.

Reaction Products May explode when heated. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

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Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Wear disposable coveralls and discard them after use.

Spill and leak Evacuate the area. Absorb on sand or vermiculite and place in a closed container for disposal. Place in a suitable container and mark for disposal. Use non-sparking tools. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material.

Waste disposal According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from direct sunlight or strong incandescent light. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Use non-sparking tools. Empty containers may contain a hazardous residue. Handle and open container with care. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. May react or be incompatible with alkalis. May react with heat. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

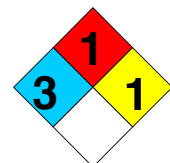
Section IX. Protective Measures

Protective clothing Splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. If more than TLV, do not breathe vapor. Wear self-contained breathing apparatus. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use in a chemical fume hood to keep airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Highly toxic! Carcinogen! Irritant! Danger of cumulative effects. Readily absorbed through skin. Do not breathe vapor. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Keep away from heat, sparks and flame. To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. May explode when heated. Contact with other material may cause fire and/or explosion. Handle and open container with care. Container should be opened only by a technically qualified person..
RTECS NO: XT3150000 (o-Nitrotoluene).



NFPA

Prepared by MSDS Department/Département de F.S..

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Telephone# (514) 489-5711

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