

# MATERIAL SAFETY DATA SHEET.

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## SECTION 1: PRODUCT IDENTIFICATION.

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PRODUCT NAME: XYLENE. PRODUCT NUMBER: 1702.

WHMIS CLASSIFICATION: B2, D2a.  
HMIS. RATING: HEALTH: 2 FLAMMABILITY: 3  
REACTIVITY: 0 PERSONAL PROTECTION: G  
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## SECTION 2: HAZARDOUS INGREDIENTS.

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INGREDIENT: CAS. NUMBER % W/W. TLV.  
XYLENE 1330-20-7 100% 100 ppm. ACGIH

LD 50: LC 50:  
4 G/Kg. Oral, Rat. 6500 ppm, Rat.

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## SECTION 3: PHYSICAL DATA.

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PHYSICAL STATE AND APPEARANCE: Clear, colourless liquid.  
ODOUR: Characteristic odour.  
VAPOUR PRESSURE: 2.5 kPa @ 38° C.  
VAPOUR DENSITY: 3.7 (AIR =1).  
EVAPORATION RATE: 0.75 (nButyl acetate= 1).  
BOILING RANGE: 137-143° C  
FREEZING POINT: -54° C  
SOLUBILITY IN WATER: Negligible.  
SPECIFIC GRAVITY @ 20° C: 0.87  
pH: Not Applicable.  
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## SECTION 4: FIRE AND EXPLOSION DATA.

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FLAMMABLE? Yes.  
UNDER WHAT CONDITIONS? Any ignition source, extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Respirators may be required for fire-fighting personnel.

If possible to do so safely, shut off fuel to fire. Use water spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling containers. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from the point of handling.

EXTINGUISHING MEDIA:

Dry chemical, CO<sub>2</sub>, alcohol foam or water spray.

FLAMMABLE LIMITS: (v/v) (upper) 7% (lower) 1%

FLASH POINT AND METHOD: 24° C (TCC).

AUTOIGNITION TEMPERATURE: 500° C

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon & black smoke.

SENSITIVITY TO IMPACT: Not Sensitive.

SENSITIVITY TO STATIC DISCHARGE: All equipment must be grounded to avoid build up of static electricity.

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SECTION 5: REACTIVITY DATA.

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CHEMICAL STABILITY: Yes.

INCOMPATIBILITY WITH OTHER SUBSTANCES ? Yes.

WHICH ONES? Strong oxidizing agents; strong acids or bases.

REACTIVITY, AND UNDER WHAT CONDITIONS: This product is stable and hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide & black smoke produced upon combustion.

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SECTION 6: TOXICOLOGICAL PROPERTIES.

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EFFECTS OF OVEREXPOSURE:

EYES: Moderate irritant. Does not cause eye tissue damage.

SKIN: Very low order of toxicity by skin absorption. Frequent or prolonged contact may irritate the skin and cause dermatitis.

INGESTION: Low order of toxicity but see chronic health hazard. Minute amounts aspirated into the lungs during swallowing or subsequent vomiting may cause severe lung irritation.

INHALATION: The vapours have a low to moderate toxicity.  
In high concentrations the vapours are irritating and may cause headache, nausea and unconsciousness.  
The irritating properties give warning as anaesthetic concentrations are approached.  
Concentrations in excess of 200 PPM may cause impaired reaction time and co-ordination.

CHRONIC HEALTH HAZARDS:

May cause liver and kidney damage in humans.

This product has been classified as an embryotoxin.

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SECTION 7: PREVENTIVE MEASURES.

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RESPIRATORY PROTECTION: Wear approved organic canister mask or air-supplied respirator as required.

VENTILATION: Local exhaust recommended. Use General mechanical ventilation to maintain vapour concentration to below TLV.  
Electrical and mechanical equipment should be explosion-proof.

PROTECTIVE GLOVES: Neoprene or butyl rubber.

EYE PROTECTION: Goggles to prevent eye contact.

ADDITIONAL PROTECTIVE EQUIPMENT: Solvent resistant suit and boots for emergency situations.

LEAK AND SPILL PROCEDURES: Remove all sources of ignition.  
Stop leak & prevent product from entering sewers or water courses.  
Ventilate enclosed spaces or wear respiratory protection. Pump up (explosion proof equipment) or soak up with sand, cotton waste or mineral absorbent. Place into suitable container and remove to outdoors. Continue to ventilate area until clear of vapours.

WASTE DISPOSAL: Controlled incineration or use waste disposal service in accord with federal, provincial and local regulations.  
In case of large spills warn public of downwind explosion hazard.

HANDLING AND STORAGE:

Keep container closed when product is not in use.

Store in a cool, well-ventilated place away from oxidizing agents and sources of ignition. The product is a static accumulator.

Transfer equipment should be properly grounded or bonded.

OTHER INFORMATION: Containers may retain hazardous residues when emptied and should be commercially cleaned before reuse.

DOT SHIPPING DATA:

XYLENES, CLASS 3 UN 1307, PG III.

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SECTION 8: FIRST AID.

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SPECIFIC MEASURES:

EYES: Flush with water for at least 15 minutes.  
Get medical attention if irritation persists.

SKIN: Remove contaminated clothing and wash before re-use.  
Wash skin with soap and water.  
If irritation develops seek medical attention.

INHALATION: Rescuers should consider respiratory protection.  
Remove immediately from contaminated area.  
Apply artificial respiration if breathing has stopped.  
If breathing is difficult, administer oxygen.  
Contact a physician.

INGESTION: Due to the possibility of aspiration into the lungs,  
do not induce vomiting, keep at rest and call a  
physician.

NOTES TO PHYSICIAN: Treatment is directed at the control of  
symptoms and the clinical condition.

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SECTION 9: PREPARATION DATA.

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PREPARED BY: INNOVATIVE MANUFACTURING INC..  
DATE: 8 OCTOBER 2004

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