

**LOCAL SALES SPECIFICATION  
& MATERIAL SAFETY DATA  
SHEET  
XYLENE**

**Description & General Use**

XYLENE is a commercial mixture of the three isomers (ortho-, meta-, and para-) and ethyl-benzene. It has a slower evaporation rate than Toluene and is used in place of Toluene where slower drying is required. It is used in various paint spraying applications in both neat and blended form and in some brushing applications. XYLENE is used as a carrier in the manufacture of alkyd resins and insecticides. XYLENE meets ASTM D843 for Nitration Grade Xylene.

**Packaging**

XYLENE is available in 200 litre steel drums.

**PHYSICAL PROPERTIES**

<b>PHYSICAL CHARACTERISTICS</b>	<b>TYPICAL</b>	<b>TEST METHOD</b>
Density at 20°C, kg/l	0,866	ASTM D1209
Colour, Saybolt	+ 30	ASTM D156
Flash Point, °C (TCC)	27	ASTM D56
Distillation Range	Not > 5°C between 137°C - 143°C including 139°C	ASTM D850
Sulphur Compounds	Nil	ASTM D853
Non-aromatics, % v/v	2,50	ASTM D2360
Acid Wash Colour	<1	ASTM D848
Acidity	Nil	ASTM D847

Cu Corrosion	Nil	ASTM D849
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### HEALTH HAZARD DATA

#### Effects of Overexposure:

Moderate eye irritation. Slight skin irritation. Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged repeated skin contact with low viscosity material may defat the skin resulting in possible irritation and dermatitis.

#### Eye Contact:

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

#### Skin Contact:

Wash contact areas with soap and water. Launder contaminated clothing before re-use.

#### Inhalation:

Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a Doctor. If breathing has stopped, use mouth to mouth resuscitation.

#### Ingestion:

Do not induce vomiting. Administer vegetable oil. Get medical assistance. (Note to doctor: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately).

#### Material Labelling:

Flammable

#### Extinguishing Media:

Carbon dioxide, foam, dry chemical and water fog.

#### Procedures if material is released or spilled:

Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. For large spills, self contained breathing apparatus must be worn during clean up.

**B & R PRODUCTS (PTY) LTD**

19 Beryllium Rd, Alrode Ext 7, Alberton  
Tel: 011 864-1301 /1302 /1036 /1393  
Fax: 027 11 864-1390  
P.O. Box 1633, Randburg, 2125, South Africa

Reg. No. 80/09849/07  
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<b>Trade / Commercial Name</b>	Xylene
<b>Chemical Name / Synonym</b>	Dimethyl Benzene
<b>UN Number</b>	UN1307
<b>CAS Number</b>	1330-20-7
<b>DOT ERG No.</b>	130

<b>Composition and Information on Ingredients</b> <b>Ingredients considered hazardous to health:</b>		
<b>Substance Name</b>	<b>CAS #</b>	<b>% by weight</b>
Xylene	1330-20-7	100

**HAZARDS IDENTIFICATION**

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

EMERGENCY RESPONSE DATA: Colourless liquid. Flammable. Vapour accumulation could flash and/or explode if ignited.

**FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable. Vapour accumulation could flash and/or explode if ignited. Flash Point C: 27 (EN 57).

Flammable limits – LEL: 1.1%, UEL: 7.0%.

NFPA HAZARD ID: Health: 2, Flammability: 3, Reactivity: 0.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

**ACCIDENTAL RELEASE MEASURES**

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities.

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**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Eliminate all ignition sources. Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant shovel and remove to appropriate waste disposal facility in accordance with current applicable laws and regulations For large spills: Contain material and pump back to holding tank for later disposal.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spills from entering storm sewers or drains and contact with soil.

**PERSONAL PRECAUTIONS:** See Section on Exposure Controls/Personal Protection.

### HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes. Avoid contact with skin. Use in well ventilated area away from all ignition sources. Avoid sparking conditions. Ground and bond all transfer equipment.

**STORAGE:** Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Outside or detached storage preferred. Storage containers should be grounded and bonded. Store in a cool area away from all ignition sources.

### EXPOSURE CONTROLS / PERSONAL PROTECTION:

**VENTILATION:** Use in well ventilated area with local exhaust ventilation. Ventilation required and equipment must be explosion proof. Use away from all ignition sources.

**RESPIRATORY PROTECTION:** Approved respiratory protective equipment must be used when vapour or mists concentrations exceed applicable standards.

**EYE PROTECTION:** Chemical type goggles should be worn.

**SKIN PROTECTION:** If prolonged or repeated skin contact is likely, impervious gloves should be worn. Good personal hygiene practices should always be followed.

### OCCUPATIONAL EXPOSURE LIMITS:

Substance Name (CAS-No.)	Source	-----LTEL-----		-----STEL-----	
		ppm	mg/m3	ppm	mg/m3
XYLENE (1330-20-7)					
O, M, P, - Isomers	OSHA	100	434	150	655
O, M, P, - Isomers	ACGIH	100	434	150	651

**NOTE:** Limits shown for guidance only. Follow applicable regulations.

**THRESHOLD LIMIT VALUE:** 100.00 ppm

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### **PHYSICAL & CHEMICAL PROPERTIES**

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE:	Liquid
COLOUR:	Colourless
ODOUR:	Xylene
ODOUR THRESHOLD:	NA
pH:	NA
BOILING POINT C:	> 154
MELTING POINT C:	NA
FLASH POINT C:	27 (EN 57)
FLAMMABILITY:	NA
AUTO FLAMMABILITY:	NE

### **PHYSICAL & CHEMICAL PROPERTIES CONTINUED**

EXPLOSIVE PROPERTIES:	NA
OXIDIZING PROPERTIES:	NA
VAPOUR PRESSURE-mmHg 20 C:	5.1
VAPOUR DENSITY:	3.6
EVAPORATION RATE:	NA
DENSITY, 20 C, kg/l:	0.863
SOLUBILITY IN WATER:	Negligible
PARTITION COEFFICIENT:	NE
VISCOSITY AT 40 C, cSt:	< 1.0
VISCOSITY AT 100C, cSt:	0.4
POUR POINT C:	NE
FREEZING POINT C:	NE
VOLATILE ORGANIC COMPOUND:	NE

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

For further technical information, contact your marketing representative.

### **STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, ETC.) : Stable  
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, active metals, halogens, acids.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide  
HAZARDOUS POLYMERISATION: Will not occur

### TOXICOLOGICAL DATA

#### --- ACUTE TOXICOLOGY ---

ORAL TOXICITY (RATS): LD50: 4.300 g/kg Practically non-toxic.

DERMAL TOXICITY (RABBITS): LD50: > 2 g/kg Considered to be practically non-toxic based on single dose level testing at 2 g/kg.

INHALATION TOXICITY (RATS): Harmful (LC50: greater than 2 but 5mg/l or less). Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Irritant. Eye irritation scores: 32.0 at 24 hours, 29.0 at 48 hours, 23.0 at 72 hours, 15.0 at 4 days, 9.0 at 7 days.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: Inhalation of vapours/mists may cause respiratory system irritation. Expected to be severely irritating to gastrointestinal tract.

#### --- GENETIC TOXICOLOGY (SUMMARY) ---

Xylene was not mutagenic in a series of tests to determine genetic activity.

### TOXICOLOGICAL DATA CONTINUED

#### --- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

There are no known reproductive effects in humans exposed to Xylenes. Para-xylene appears to be more toxic to developing fetuses than other isomers and may cause pre-implantation losses in animals at greater than 230 ppm. No birth defects or toxic effects on developing fetuses were observed in studies of pregnant rats exposed to 500 ppm commercial xylene. In reproductive studies at levels up to 500 ppm, no birth defects or adverse effect on fertility were observed. At 500 ppm, birth weights of the young were slightly lower than normal.

#### --- CHRONIC TOXICOLOGY (SUMMARY) ---

Technical grade xylene was tested by the NTP by long-term oral administration to rats and mice, with no carcinogenic or other adverse effects reported. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

### ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

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This material is toxic to fish and wildlife.  
Do not discharge into lakes, streams, ponds, etc.

### **DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

### **TRANSPORT INFORMATION**

#### USA DOT:

SHIPPING NAME:	Xylenes
HAZARD CLASS & DIV:	3
ID NUMBER:	UN1307
ERG NUMBER:	130
PACKING GROUP:	PG III
STCC:	NE
DANGEROUS WHEN WET:	No
POISON:	No
LABEL (s):	Flammable Liquid
PLACARD (s):	Flammable
PRODUCT RQ:	100 lbs (based on RQ for XYLENE)
MARPOL III STATUS:	NA

### **TRANSPORT INFORMATION CONTINUED**

#### IMO:

HAZARD CLASS & DIV:	3.3
UN NUMBER:	1307
PACKING GROUP:	PG III
SHIPPING NAME:	Xylenes
LABEL (s):	Flammable Liquid
MARPOL III STATUS:	NA

#### ICAO/IATA:

HAZARD CLASS & DIV:	3
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ID/UN NUMBER: 1307  
PACKING GROUP: PG III  
SHIPPING NAME: Xylenes  
SUBSIDIARY RISK: NA  
LABEL (s): Flammable Liquid

### **REGULATORY INFORMATION**

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
XYLENES (100.00%)	1330-20-7	1, 10, 18, 19, 20, 21, 22, 23, 24, 25

#### -----REGULATORY LISTS SEARCHED-----

1 = ACGIH ALL	8 = IARC 2B	15 = TSCA 12b	23 = MN RTK
2 = ACGIH A1	9 = OSHA CARC	17 = CA P65	24 = NJ RTK
3 = ACGIH A2	10 = OSHA Z	18 = CA RTK	25 = PA RTK
4 = NTP CARC	11 = TSCA 4	19 = FL RTK	26 = RI RTK
5 = NTP SUS	12 = TSCA 5a2	20 = IL RTK	
6 = IARC 1	13 = TSCA 5e	21 = LA RTK	
7 = IARC 2A	14 = TSCA 6	22 = MI 293	

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen

### **OTHER INFORMATION**

OSHA Precautionary Label Text:

CONTAINS XYLENE.  
DANGER!  
HARMFUL OR FATAL IF SWALLOWED.  
FLAMMABLE.  
VAPOUR HARMFUL.  
MAY CAUSE SKIN IRRITATION ON PROLONGED,  
REPEATED CONTACT.

### **OTHER INFORMATION CONTINUED**

KEEP AWAY FROM HEAT, SPARKS, AND FLAME.



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KEEP CONTAINER CLOSED.  
USE WITH ADEQUATE VENTILATION.  
AVOID BREATHING VAPOUR OR MIST.  
AVOID PROLONGED, REPEATED SKIN CONTACT.

FIRST AID: IF SWALLOWED, CALL A DOCTOR IMMEDIATELY. ONLY INDUCE VOMITING AT THE INSTRUCTION OF A DOCTOR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. CALL A DOCTOR. IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. CALL A DOCTOR IF SYMPTOMS OCCUR. WASH CLOTHING BEFORE REUSE.

FOR INDUSTRIAL USE ONLY.  
NOT INTENDED OR SUITABLE FOR USE IN OR AROUND A HOUSEHOLD OR DWELLING.

### ATTENTION!

EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE INCLUDING FLAMMABLE OR EXPLOSIVE VAPOURS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNINGS AND PRECAUTIONS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN THOROUGHLY CLEANED OR DESTROYED.

REFER TO PRODUCT MATERIAL SAFETY DATA SHEETS OR FURTHER SAFETY AND HEALTH INFORMATION.

MPL-197 (10-92)

USE: SOLVENT

INGREDIENT	PERCENT	CAS NUMBER
XYLENE	100.00	1330-20-7

### Manufacturers Note:

Director: B.J. Rodd

*Supreme*  
PAINT

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