



# ***TAG SOLVENT PRODUCTS (PTY)LTD.***

## ***MATERIAL SAFETY DATA SHEET*** ***XYLENE***

### **1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Common name</b>	: Xylene		
<b>Supplier</b>	: TAG Solvent Products Mallet Road/Weg Knights Germiston 1401 Republic of South Africa TEL: +27 11 822-1600		
<b>Synonym</b>	: Not available.		
<b>Trade name</b>	: Xylene.		
<b>Material uses</b>	: Solvent.		

### **2 COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Name &amp; Composition</b>	<b>CAS#</b>	<b>EINECS No.</b>
Xylene (mixed isomers, pure)	1330-20-7	215-535-7

### **3 HAZARDS IDENTIFICATION**

<b>Physical state and appearance</b>	: Liquid.
<b>Emergency overview</b>	: DANGER! FLAMMABLE. HARMFUL BY INHALATION AND SKIN CONTACT. LIKELY TO CAUSE SKIN IRRITATION.
<b>Routes of entry</b>	: Eye contact. Ingestion. Inhalation. Absorbed through the skin.
<b>Potential acute health effects</b>	
<b>Eyes</b>	: Hazardous in case of eye contact (irritant)
<b>Skin</b>	: Hazardous in case of skin contact.
<b>Inhalation</b>	: Harmful in case of inhalation
<b>Ingestion</b>	: Harmful if swallowed. May be fatal if swallowed.
<b>Potential chronic health effects</b>	: CARCINOGENIC EFFECTS: Not listed MUTAGENIC EFFECTS: Not listed. TERATOGENIC EFFECTS: classified PROVEN for human.

See toxicological information (section 11)

#### 4 FIRST AID MEASURES

<b>Eye contact</b>	: Check for and remove any contact lenses. Wash eyes thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
<b>Skin contact</b>	: In the case of contact, wash off immediately with water and soap. Change heavily contaminated clothing as soon as reasonably practicable and wash underlying skin. In extreme cases of saturation with this product, drench with water, remove clothing as soon as possible and wash skin with soap and water. Seek medical advice if skin becomes red, swollen or painful.
<b>Inhalation</b>	: If exposure to vapour, mists or fumes causes drowsiness, headache, blurred vision or irritation of eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any symptoms persist obtain medical advice. Unconscious casualties must be placed in the recovery position. Monitor breathing and pulse rate and if breathing has failed, or is deemed inadequate, respiration must be assisted, Preferably by mouth method. Administer external cardiac massage if necessary. Seek medical attention immediately.
<b>Ingestion</b>	: If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of the product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
<b>Notes to physician</b>	: Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

#### 5 FIRE FIGHTING MEASURES

<b>Flammability of the product</b>	: Flammable
<b>Flash points (PMC)</b>	: ASTM D 93 (Test method) 27°C
<b>Fire fighting media and instructions</b>	: Use foam, dry powder or water fog. DO NOT USE water jets.
<b>Protective clothing (fire)</b>	: Be sure to use an approved/certified respirator or equivalent.
<b>Special remarks on fire and explosion hazards</b>	: For major fires call the fire service. Ensure an escape path is always available from any fire. There is a danger of flashbacks if sparks or hot surfaces ignite vapour. Any spillage should be regarded as a potential fire risk.
<b>Combustion Products</b>	: Toxic fumes may be evolved on burning or exposure to heat.
<b>Fire fighting procedures</b>	: FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL wearing approved breathing apparatus.

## 6 ACCIDENTAL RELEASE MEASURES

<b>General spillage or leak procedures</b>	: As this product has a very low flashpoint any spillage or leak is a severe fire and/or explosion hazard. Isolate spillages from all ignition sources including road traffic. Ensure good ventilation. Evacuate all non-essential personnel from the immediate area. Wear protective clothing. See Exposure Controls/Personal Protection, section 8, of this Safety Data Sheet. Protect drains from potential spills to minimize contamination. Do not wash product into drainage system. Vapour is heavier than air and may travel to remote sources of ignition (e.g. along drainage systems, in basements etc.). If spillage occurs in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry. . In the case of spillage on water, prevent the spread of the product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies. In the case of spillage at sea approved dispersants may be used where authorized by the appropriate government/regulatory authorities. In the event of spillages contact the appropriate authorities. Regular surveillance on the location of the spillage should be maintained.
<b>Small spill or leak</b>	: Small quantities of spilled material may be allowed to evaporate. Vapour should be dispersed by effective ventilation.
<b>Large spill or leak</b>	: Recovery of large spillages should be effected by specialists personnel. Keep away from heat. Keep away from sources of Ignition. Stop leak if without risk. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage, which may be reasonably anticipated. Contain and recover spilled material using sand or other inert absorbent material.

## 7 HANDLING AND STORAGE

<b>Handling</b>	: Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing occurs wear full face visor or chemical goggles as appropriate. Do not siphon product with mouth. Whilst using, do not eat, drink or smoke.
<b>Storage</b>	: Store and dispense only in well-ventilated areas away from heat and sources of ignition. Store and use only in equipment/containers for use with this product. Containers must be properly labeled and kept closed when not in use. Do not remove warning labels from containers. Empty packages may contain some remaining product. Retain hazard-warning labels on empty packages as a guide on the safe handling, storage and disposal of empty packaging.
<b>Fire prevention</b>	: Light hydrocarbon vapours can build up in the headspace of tanks. <b>These can cause flammability/explosion hazards even at temperatures below the normal flash points (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces).</b> Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks. When the product is pumped (e.g. during filling, discharged or ullaging) and when earthed or bonded to the tank structure. Explosive air/vapour mixtures may form at ambient temperature. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use. Empty containers represent a fire hazard as they may contain some remaining flammable product and vapour. Never cut, weld, solder or braze empty containers

## 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Exposure limits</b>	: <b>Xylene</b> ACGIH: TLV (8hr TWA) 100ppm, 434mg/m <sup>3</sup> STEL (15min TWA) 150ppm, 651mg/m <sup>3</sup>  UK publication EH40: Occupational Exposure Standard: Long term exposure limit (8hr TWA) 100ppm, 435mg/m <sup>3</sup> Short term Exposure Limit (15min) 150ppm, 650mg/m <sup>3</sup> Can be absorbed through skin
<b>Personal protection</b>	
<b>Body</b>	
<b>Eyes</b>	: Splash goggles or face visor in circumstances where eye contact can accidentally occur.
<b>Respiratory</b>	: Chemical resistant protective suite. : Vapour respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	: Butyl rubber gloves.
<b>Feet</b>	: Chemical resistant safety boots.
<b>Protective clothing</b>	: Splash goggles. Full chemical resistant protective suit. Vapor respirator. Butyl gloves. Chemical resistant boots.

<b>Personal protection in case of large spills</b>	: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. The use of respiratory equipment must be strictly in accordance with the manufacturers instructions and ant statutory requirements governing its selection and use.
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## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance</b>	: Liquid.
<b>Colour</b>	: Colourless. Clear.
<b>Odor</b>	: Solvent.
<b>Boiling point /range</b>	: ASTM D 93 (test method): 137 - 143°C
<b>Density @ 15°C</b>	: ASTM D 1298 (test method): 863 kg/m <sup>3</sup>
<b>Flash point (PMC)</b>	: ASTM D 93 (test method): 27°C

## 10 STABILITY AND REACTIVITY

<b>Stability and reactivity</b>	: The product is stable at ambient temperatures. Hazardous polymerization reactions will not occur..
<b>Conditions of instability</b>	: Sources or ignition.
<b>Incompatibility with various materials</b>	: Highly reactive with strong oxidizing agents.
<b>Hazardous decomposition products</b>	: Thermal decomposition will vary with conditions. Incomplete combustion will generate smoke, CO <sub>2</sub> and hazardous gases including carbon monoxide.

## 11 TOXICOLOGICAL INFORMATION

<b>Eyes</b>	: Unlikely to cause more than transient stinging or redness of accidental eye contact occurs.
<b>Skin</b>	: Likely to cause skin irritation. Can be absorbed via intact skin. Repeated or prolonged contact may cause skin irritation.
<b>Ingestion</b>	: Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea. Will injure lungs if aspiration occurs, e.g. during vomiting.
<b>Inhalation</b>	: Harmful if vapour, mists or fumes generated during use are inhaled. Likely to be irritating to the respiratory tract if high concentrations of mist or vapour are inhaled. May cause nausea, dizziness and drowsiness if high concentrations of vapour are inhaled. Under normal conditions use of the product is not hazardous; however, abuse involving deliberate inhalation of very high concentrations of vapour, even for short periods, can cause unconsciousness and/or in sudden fatality.

## 12 ECOLOGICAL INFORMATION

<b>Mobility</b>	: Spillages may penetrate the soil causing ground water contamination.
<b>Persistence and degradability</b>	: This product is inherently biodegradable.
<b>Bioaccumulative potential</b>	: There is no evidence to suggest bioaccumulation will occur.
<b>Aquatic toxicity</b>	: Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired. Harmful to aquatic organisms.

### 13 DISPOSAL CONSIDERATIONS

<b>Product disposal</b>	: Dispose of via an authorized person/licensed waste disposal contractor in accordance with local regulations.
<b>Container disposal</b>	: Empty packages may contain some remaining product. Hazard labels are a guide to the safe handling of empty packaging and shouldn't be removed. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers.

Consult your local or regional authorities.

### 14 TRANSPORT INFORMATION

<b>ADR/RID Classification</b>	: Xylene, Flammable liquid, class 3, Item 13(c), Hazardous Identification No 30
<b>UN</b>	: XYLENE, Flammable liquid, Class 3, UN number 1307
<b>IATA/CAO</b>	: Xylene, Flammable liquid, Class 3, Pack Group II or III
<b>IMO</b>	: XYLENE, Flammable liquid, Class 3.2, Pack Group II
<b>EMERGENCY ACTION CODE</b>	: Flammable liquid, 3[Y]

### 15 REGULATORY INFORMATION

<b>EU Category of Danger</b>	: Flammable. Harmful. Irritant.
<b>EU labeling</b>	: <b>Symbol</b> - St. Andrew's Cross. <b>Indication of danger</b> – HARMFUL.
<b>Risk phrases</b>	: R10 – Flammable. R20/21 – Harmful by inhalation and in contact with skin. R38 – Irritating to skin.
<b>Safety phrases</b>	: S2 – Keep out of reach of children. S16 – Keep away from sources of ignition – No Smoking. S25 – Avoid contact with eyes. S29 – Do not empty into drains.
	The label must carry the following additional information: "EC Label", Xylene, mixed isomers, 215-535-7

### 16 OTHER INFORMATION

<b>Date of Printing</b>	: 02/03/2004
<b>Date of issue</b>	: 02/03/2004

**Notice to reader:**

This MSDS summarizes at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use and transport the product in the workplace. Since TAG Solvent Products (PTY) LTD. and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is required to ensure that an appropriate assessment can be made, the user should contact the company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk with possession and application of the product passes on delivery.