Xylene

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Xylene

Product code : Q5891, Q9151, Q9156, Q9306, T1404, Q9264

CAS-No. : 1330-20-7

Reaction Mass of Ethylbenzene and Xylenes (REACH) Synonyms

EC-No. : 905-588-0

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Solvent., Raw material for use in the chemical industry.

Substance/Mixture

Uses advised against : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : SHELL MARKETS (MIDDLE EAST) LIMITED

> **CHEMICALS** PO Box 307 JEBEL ALI. DUBAI Unit.Arab Emir.

Telephone : +971 4 405 4400 Telefax : +971 4 329 3311

**Email Contact for Safety** 

**Data Sheet** 

### 1.4 Emergency telephone number

+ (65) 6542 9595 (Alert-SGS)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### **GHS Classification**

Flammable liquids : Category 3 Flammable liquids : Category 3 Acute toxicity (Oral) : Category 5 Aspiration hazard : Category 1 Aspiration hazard : Category 1 Acute toxicity (Dermal) : Category 4

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: Category 4 Acute toxicity (Dermal) Acute toxicity (Inhalation) : Category 4 Acute toxicity (Oral) : Category 5 Skin irritation : Category 2 Category 2A Eve irritation Skin irritation Category 2 Eye irritation : Category 2A Acute toxicity (Inhalation) : Category 4

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

(Inhalation)

Specific target organ toxicity -

repeated exposure

(Inhalation)

Short-term (acute) aquatic

hazard

Short-term (acute) aquatic

hazard

Long-term (chronic) aquatic

hazard

Long-term (chronic) aquatic

hazard

Category 2

: Category 3 (Respiratory system)

0.4

: Category 3 (Respiratory system)

: Category 2 (Auditory system)

: Category 2 (Auditory system)

: Category 2

: Category 2

: Category 3

: Category 3

## 2.2 Label elements

#### **GHS-Labelling**

Hazard pictograms







Signal word : Danger

Danger

Hazard statements : PHYSICAL HAZARDS:

H226 Flammable liquid and vapour.

HEALTH HAZARDS:

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

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#### **ENVIRONMENTAL HAZARDS:**

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

PHYSICAL HAZARDS:

H226 Flammable liquid and vapour.

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H303 May be harmful if swallowed.

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H373 May cause damage to organs through prolonged or repeated exposure.

**ENVIRONMENTAL HAZARDS:** 

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

#### : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eve protection/ face protection.

P273 Avoid release to the environment.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P273 Avoid release to the environment.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water or shower.

P370 + P378 In case of fire: Use appropriate media to extinguish.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

P332 + P313 If skin irritation occurs: Get medical advice/

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water or shower.

P370 + P378 In case of fire: Use appropriate media to extinguish.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

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P362 + P364 Take off contaminated clothing and wash it before

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/ doctor if you feel unwell.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### Disposal:

P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

#### 2.3 Other hazards

May form flammable/explosive vapour-air mixture.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-

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vapour mixtures can occur.

Vapours may cause drowsiness and dizziness.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

### **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Xylene	1330-20-7	> 80
Ethylbenzene	100-41-4	< 20

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : DO NOT DELAY.

Keep victim calm. Obtain medical treatment immediately.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

appropriate personal protective equipment according to the

incident, injury and surroundings.

If inhaled : Call emergency number for your location / facility.

Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to

the nearest medical facility.

In case of skin contact : Remove contaminated clothing. Immediately flush skin with

large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical

facility for additional treatment.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Transport to the nearest medical facility for additional

treatment.

If swallowed : Call emergency number for your location / facility.

If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical

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facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Respiratory irritation signs and symptoms may include a

temporary burning sensation of the nose and throat, coughing,

and/or difficulty breathing.

Skin irritation signs and symptoms may include a burning

sensation, redness, swelling, and/or blisters.

Eye irritation signs and symptoms may include a burning

sensation, redness, swelling, and/or blurred vision.

Ingestion may result in nausea, vomiting and/or diarrhoea. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest

congestion, shortness of breath, and/or fever.

The onset of respiratory symptoms may be delayed for

several hours after exposure.

If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and

death.

Auditory system effects may include temporary hearing loss

and/or ringing in the ears.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Call a doctor or poison control center for guidance.

Potential for chemical pneumonitis.

Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these

effects. Consider: oxygen therapy.

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon

dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing

media

: Do not use water in a jet.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Clear fire area of all non-emergency personnel. Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke).

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5.3 Advice for firefighters	Carbon monoxide. Unidentified organic an compounds. Flammable vapours may be p temperatures below the flash point. The vathan air, spreads along the ground and dis possible. Will float and can be reignited on	present even at apour is heavier tant ignition is
Special protective equipment for firefighters	: Proper protective equipment including che gloves are to be worn; chemical resistant s large contact with spilled product is expect Breathing Apparatus must be worn when a confined space. Select fire fighter's cloth relevant Standards (e.g. Europe: EN469).	suit is indicated if ed. Self-Contained approaching a fire in ing approved to
Specific extinguishing methods	: Standard procedure for chemical fires.	
Further information	: Keep adjacent containers cool by spraying	with water.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe all relevant local and international regulations.

Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

Local authorities should be advised if significant spillages

cannot be contained.

Avoid contact with skin, eyes and clothing.

Isolate hazard area and deny entry to unnecessary or

unprotected personnel.

Do not breathe fumes, vapour. Do not operate electrical equipment.

### 6.2 Environmental precautions

Environmental precautions : Shut off leaks, if possible without personal risks. Remove all

possible sources of ignition in the surrounding area. Use

appropriate containment to avoid environmental

contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take

precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all

equipment.

Monitor area with combustible gas indicator.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : For small liquid spills (< 1 drum), transfer by mechanical

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means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely Ventilate contaminated area thoroughly.

If contamination of site occurs remediation may require specialist advice.

#### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

### **SECTION 7: Handling and storage**

General Precautions : Avoid breathing of or direct contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see

Section 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of

this material.

Ensure that all local regulations regarding handling and

storage facilities are followed.

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid inhaling vapour and/or mists.

Avoid contact with skin, eyes and clothing.

Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Bulk storage tanks should be diked (bunded).

When using do not eat or drink.

The vapour is heavier than air, spreads along the ground and

distant ignition is possible.

Product Transfer : Even with proper grounding and bonding, this material can still

accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These

include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of

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	tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 7 m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.				
	Refer to guidance under Handling section.				
7.2 Conditions for safe storage, inc	cluding any incompatibilities				
Requirements for storage areas and containers	<ul> <li>Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.</li> </ul>				
Other data	: Storage Temperature: Ambient.				
	Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions. Must be stored in a diked (bunded) well- ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.				
Packaging material	<ul> <li>Suitable material: For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.</li> <li>Unsuitable material: Avoid prolonged contact with natural, butyl or nitrile rubbers.</li> </ul>				
Container Advice	<ul> <li>Do not cut, drill, grind, weld or perform similar operations on or near containers.</li> </ul>				
7.3 Specific end use(s)					
Specific use(s)	: Not applicable				
	See additional references that provide safe handling practices				

American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).

for liquids that are determined to be static accumulators:

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IEC/TS 60079-32-1: Electrostatic hazards, guidance

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

### **Biological occupational exposure limits**

Basis	Sampling time	Control parameters	CAS-No.	Substance name
Basis	Sampling time	Control parameters	CAS-No.	Substance name

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 293 mg/m3

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers **Exposure routes: Dermal** 

Potential health effects: Long-term systemic effects

Value: 180 mg/kg bw/day

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 180 mg/m3

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers **Exposure routes: Dermal** 

Potential health effects: Long-term systemic effects

Value: 108 mg/kg bw/day

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

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Value: 15 mg/m3

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 1,6 mg/kg bw/day

## **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dquv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

#### 8.2 Exposure controls

**Engineering measures**The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Firewater monitors and deluge systems are recommended.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Eye washes and showers for emergency use.

### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

#### Personal protective equipment

Personal protective equipment (PPE) should meet recommended national standards. Check with

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PPE suppliers.

Eye protection : Wear goggles for use against liquids and gas.

Wear full face shield if splashes are likely to occur.

Hand protection

Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin and body protection

Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.
Wear antistatic and flame-retardant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A boiling point >65°C (149°F)].

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Where air-filtering respirators are suitable, select an

appropriate combination of mask and filter.

Hygiene measures : Wash hands before eating, drinking, smoking and using the

> toilet. Launder contaminated clothing before re-use. Do not ingest. If swallowed, then seek immediate medical assistance.

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**Environmental exposure controls** 

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vapour.

Information on accidental release measures are to be found in

section 6.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid.

Colour : colourless Odour : aromatic Odour Threshold : 0,27 ppm

: Not applicable pН

Melting point/freezing point : < -25 °C

Boiling point/boiling range Typical 136 - 145 °C

: Typical 23 - 27 °C Flash point

Method: Abel

Evaporation rate : 13,5

Method: DIN 53170, di-ethyl ether=1

0.76

Method: ASTM D 3539, nBuAc=1

Flammability (solid, gas) : Not applicable

: 7,1 %(V) Upper explosion limit

Lower explosion limit : 1 %(V)

Vapour pressure : 4,5 kPa (50 °C)

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	0,8 - 1,2 kPa (20 °C)	
	3,3 1,2 111 21 (20 3)	
	0,2 kPa (0 °C)	
Relative vapour density	: 3,7	
Relative density	: 0,86 - 0,87	
Density	: Typical 870 kg/m3 (15 °C) Method: ASTM D1298	
Solubility(ies)		
Water solubility	: estimated value(s) 0,2 g/l	
Partition coefficient: n- octanol/water	: log Pow: 3,16Method: Literature data.	
Auto-ignition temperature	: estimated value(s) 432 - 530 °C	
Viscosity		
Viscosity, dynamic	: ca. 0,9 mPa.s (20 °C)	
Viscosity, kinematic	: < 0,9 mm2/s (20 °C)	
Explosive properties	: Not classified	
Oxidizing properties	: Not applicable	
9.2 Other information		
Surface tension	: Typical 28,7 mN/m, 20 °C, ASTM D-971	
Conductivity	: Low conductivity: < 100 pS/m	
	The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductivits conductivity is below 100 pS/m and is considered sent conductive if its conductivity is below 10,000 pS/m., Whe liquid is nonconductive or semi-conductive, the precautic are the same., A number of factors, for example liquid temperature, presence of conteminants, and anti-static	ni- ether a

# **SECTION 10: Stability and reactivity**

Molecular weight

## 10.1 Reactivity

14/30 800001005797

: 106 g/mol

temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

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The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions. Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static

electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Hazardous decomposition products are not expected to form

during normal storage.

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this

material undergoes combustion or thermal or oxidative

degradation.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Basis for assessment : Information given is based on product testing.

exposure

Information on likely routes of : Inhalation is the primary route of exposure although

absorption may occur through skin contact or following

accidental ingestion.

**Acute toxicity** 

Product:

Acute oral toxicity : LD 50 Rat, male and female: > 2.000 mg/kg

> Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral) Remarks: Based on available data, the classification criteria

are not met.

: LC 50 Rat, male: 6350 ppm Acute inhalation toxicity

Exposure time: 4 h

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Test atmosphere: vapour

Method: Test(s) equivalent or similar to Directive 67/548/EEC,

Annex V, B.2.

Remarks: Harmful if inhaled.

Acute dermal toxicity : LD 50 Rabbit, male: > 2.000 mg/kg

Method: Literature data Test substance: m-xylene

Remarks: Based on available data, the classification criteria

are not met.

Information given is based on data obtained from similar

substances.

**Components:** 

Xylene:

Acute oral toxicity : LD 50 Rat, male and female: > 2.000 mg/kg

Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral) Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC 50 Rat, male: 6350 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: Test(s) equivalent or similar to Directive 67/548/EEC,

Annex V, B.2.

Remarks: Harmful if inhaled.

Acute dermal toxicity : LD 50 Rabbit, male: > 2.000 mg/kg

Method: Literature data Test substance: m-xylene

Remarks: Based on available data, the classification criteria

are not met.

Information given is based on data obtained from similar

substances.

Ethylbenzene:

Acute oral toxicity : LD50 Rat: > 2000 - 5000 mg/kg

Remarks: May be harmful if swallowed.

Acute inhalation toxicity : LC50 : > 10 - 20 mg/l

Remarks: Harmful if inhaled.

Acute dermal toxicity : LD50 Rabbit: > 5000 mg/kg

Remarks: Low toxicity:

Skin corrosion/irritation

**Product:** 

**Xylene** 

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Species: Rabbit Method: Literature data

Remarks: Causes skin irritation.

### **Components:**

Xylene:

Species: Rabbit

Method: Literature data

Remarks: Causes skin irritation.

Ethylbenzene:

Remarks: Causes skin irritation.

## Serious eye damage/eye irritation

#### **Product:**

Species: Rabbit

Method: Acceptable non-standard method. Remarks: Causes serious eye irritation.

### **Components:**

Xylene:

Species: Rabbit

Method: Acceptable non-standard method. Remarks: Causes serious eye irritation.

Ethylbenzene:

Remarks: Causes serious eye irritation.

### Respiratory or skin sensitisation

### **Product:**

Species: Mouse

Method: Test(s) equivalent or similar to OECD Test Guideline 429 Remarks: Based on available data, the classification criteria are not met.

### **Components:**

Xylene:

Species: Mouse

Method: Test(s) equivalent or similar to OECD Test Guideline 429 Remarks: Based on available data, the classification criteria are not met.

### Ethylbenzene:

Remarks: Not a sensitiser., Based on available data, the classification criteria are not met.

## Germ cell mutagenicity

#### **Product:**

		SAFETY DATA SHEET	
			Xylene
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Genotoxicity in vitro	•	Method: Test(s) equivalent or similar to Directive 67/5 Annex V, B.10 Remarks: Based on available data, the classification are not met.	
	:	Method: Test(s) equivalent or similar to Directive 67/5 Annex V, B.19 Remarks: Based on available data, the classification are not met.	
	:	Test species: MouseMethod: OECD Test Guideline 4 Remarks: Based on available data, the classification are not met.	
Components:			
Xylene:			
Genotoxicity in vitro	:	Method: Test(s) equivalent or similar to Directive 67/5 Annex V, B.10 Remarks: Based on available data, the classification are not met.	
	•	Method: Test(s) equivalent or similar to Directive 67/5 Annex V, B.19 Remarks: Based on available data, the classification are not met.	
	:	Test species: MouseMethod: OECD Test Guideline 4 Remarks: Based on available data, the classification are not met.	
Germ cell mutagenicity- Assessment	:	This product does not meet the criteria for classification categories 1A/1B.	on in
Ethylbenzene:	:	Remarks: Not mutagenic.	
arcinogenicity			
Product:			

## Ca

#### Product:

Species: Rat, (male and female)

Application Route: Oral

Method: Test(s) equivalent or similar to Directive 67/548/EEC, Annex V, B.32 Remarks: Based on available data, the classification criteria are not met.

## **Components:**

Xylene:

Species: Rat, (male and female)

**Application Route: Oral** 

Method: Test(s) equivalent or similar to Directive 67/548/EEC, Annex V, B.32 Remarks: Based on available data, the classification criteria are not met.

## Ethylbenzene:

Remarks: Limited evidence of carcinogenic effect, Causes cancer in laboratory animals.

**Xylene** 

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Material	GHS/CLP Carcinogenicity Classification
Xylene	No carcinogenicity classification.
Ethylbenzene	No carcinogenicity classification.

Material	Other Carcinogenicity Classification	
Xylene	IARC: Group 3: Not classifiable as to its carcinogenicity to humans	
Ethylbenzene	IARC: Group 2B: Possibly carcinogenic to humans	

### Reproductive toxicity

**Product:** 

Species: Rat

Sex: male and female **Application Route: Inhalation** 

Method: Acceptable non-standard method.

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal : Species: Rat, female

development Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline

Remarks: Based on available data, the classification criteria

are not met.

**Components:** 

Xylene: Species: Rat

Sex: male and female **Application Route: Inhalation** 

Method: Acceptable non-standard method.

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal : Species: Rat, female

development Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline

414

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity -: This product does not meet the criteria for classification in

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Assessment

categories 1A/1B.

### Ethylbenzene:

Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair

fertility.

## STOT - single exposure

#### **Product:**

**Exposure routes: Inhalation** Target Organs: Respiratory Tract

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness.

#### Components:

## Xylene:

**Exposure routes: Inhalation** Target Organs: Respiratory Tract

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness., Inhalation of vapours or mists may cause irritation to the respiratory system., May cause respiratory irritation.

#### Ethylbenzene:

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system.

#### STOT - repeated exposure

### **Product:**

**Exposure routes: Inhalation** Target Organs: Auditory system

Remarks: May cause damage to organs or organ systems through prolonged or repeated exposure.. Harmful: danger of serious damage to health by prolonged exposure through inhalation., Solvent abuse and noise interaction in the work environment may cause hearing

loss.

#### **Components:**

### Xylene:

Exposure routes: Inhalation Target Organs: Auditory system

Remarks: May cause damage to organs or organ systems through prolonged or repeated exposure., Harmful: danger of serious damage to health by prolonged exposure through inhalation., Solvent abuse and noise interaction in the work environment may cause hearing

loss.

#### Ethylbenzene:

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Remarks: Harmful: danger of serious damage to health by prolonged exposure through inhalation.. Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss., Kidney: can cause kidney damage., Liver: can cause liver damage., Central nervous system: repeated exposure affects the nervous system.

### Repeated dose toxicity

#### **Product:**

Rat, male and female: Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs: No specific target organs noted

Remarks: Over exposures of humans to xylene or xylene solvent mixtures produced predominately central nervous system (CNS) effects with less common effects reported to the lung, gastrointestinal tract, liver, kidney and heart.

Available animal and human results in auditory system provide limited evidence that xylenes may induce decrements in human hearing, and it was unclear if these changes were temporary or permanent.

Rat. male:

**Application Route: Inhalation** Test atmosphere: vapour Method: Literature data

Target Organs: Auditory system

Remarks: Over exposures of humans to xylene or xylene solvent mixtures produced predominately central nervous system (CNS) effects with less common effects reported to the lung, gastrointestinal tract, liver, kidney and heart.

Available animal and human results in auditory system provide limited evidence that xylenes may induce decrements in human hearing, and it was unclear if these changes were temporary or permanent.

#### Components:

### Xylene:

Rat, male and female: Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs: No specific target organs noted

Remarks: Over exposures of humans to xylene or xylene solvent mixtures produced predominately central nervous system (CNS) effects with less common effects reported to the lung, gastrointestinal tract, liver, kidney and heart.

Available animal and human results in auditory system provide limited evidence that xylenes may induce decrements in human hearing, and it was unclear if these changes were temporary or permanent.

Rat, male:

**Application Route: Inhalation** Test atmosphere: vapour Method: Literature data

Target Organs: Auditory system

Remarks: Over exposures of humans to xylene or xylene solvent mixtures produced

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predominately central nervous system (CNS) effects with less common effects reported to the lung, gastrointestinal tract, liver, kidney and heart.

Available animal and human results in auditory system provide limited evidence that xylenes may induce decrements in human hearing, and it was unclear if these changes were temporary or permanent.

## Aspiration toxicity

#### **Product:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Components:

### Xylene:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Ethylbenzene:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

#### **Further information**

#### **Product:**

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

### Summary on evaluation of the CMR properties

Germ cell mutagenicity-

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Carcinogenicity -

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Reproductive toxicity -

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

## **Components:**

#### Xylene:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

#### **Ethylbenzene:**

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

Basis for assessment : Incomplete ecotoxicological data are available for this product.

The information given below is based partly on a knowledge of

the components and the ecotoxicology of similar

products. Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar

products.

**Product:** 

Toxicity to fish (Acute

toxicity)

: LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l

Exposure time: 96 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

 $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to daphnia and other

aquatic invertebrates (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 3,82 mg/l

Exposure time: 48 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

LC/EC/IC50 >1 - <=10 mg/l

Toxicity to algae (Acute

toxicity)

EC50 (Pseudokirchneriella subcapitata (algae)): 2,2 mg/l

Exposure time: 72 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

LC/EC/IC50 >1 - <=10 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC: > 1,3 mg/l Exposure time: 56 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: Literature data.

Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 0,96 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (Water flea)

Method: Other guideline method.

Remarks: NOEC/NOEL > 0.1 - <=1.0 mg/l

Toxicity to bacteria (Acute

toxicity)

: EC50 (Activated sludge): > 157 mg/l

Exposure time: 3 h

Method: Information given is based on data obtained from

similar substances.

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

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**Components:** 

Xylene:

Toxicity to fish (Acute

toxicity)

: LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l

Exposure time: 96 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

 $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to daphnia and other aquatic invertebrates (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 3,82 mg/l

Exposure time: 48 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

LC/EC/IC50 >1 - <=10 mg/l

Toxicity to algae (Acute

toxicity)

: EC50 (Pseudokirchneriella subcapitata (algae)): 2,2 mg/l

Exposure time: 72 h

Method: Information given is based on data obtained from

similar substances. Remarks: Toxic

LC/EC/IC50 >1 - <=10 mg/l

Toxicity to bacteria (Acute

toxicity)

: EC50 (Activated sludge): > 157 mg/l

Exposure time: 3 h

Method: Information given is based on data obtained from

similar substances.

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC: > 1.3 mg/l Exposure time: 56 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: Literature data.

Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 0,96 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (Water flea)

Method: Other guideline method.

Remarks: NOEC/NOEL > 0.1 - <=1.0 mg/l

Ethylbenzene:

Toxicity to fish (Acute : Remarks: Toxic

LC/EC/IC50 >1 - <=10 mg/l toxicity)

Toxicity to daphnia and other : Remarks: Toxic

aquatic invertebrates (Acute

LC/EC/IC50 >1 - <=10 mg/l

toxicity)

Toxicity to algae (Acute : EC50 : Remarks: Toxic

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toxicity) LC/EC/IC50 > 1 - <=10 mg/l

Toxicity to bacteria (Acute

toxicity)

Remarks: Harmful

LC/EC/IC50 >10 - <=100 mg/l

Toxicity to fish (Chronic

toxicity)

: Remarks: NOEC/NOEL > 0.1 - <=1.0 mg/l

#### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Biodegradation: 87,8 %

Exposure time: 28 d

Method: Information given is based on data obtained from

similar substances.

Remarks: Readily biodegradable.

Remarks: Not Persistent per IMO criteria., International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent

revision thereof."

### **Components:**

Xylene:

Biodegradability : Biodegradation: 87,8 %

Exposure time: 28 d

Method: Information given is based on data obtained from

similar substances.

Remarks: Readily biodegradable.

#### Ethylbenzene:

Biodegradability : Remarks: Readily biodegradable., Oxidises rapidly by photo-

chemical reactions in air., Not Persistent per IMO criteria., International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F)

and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

#### 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Exposure time: 56 d

Bioconcentration factor (BCF): 29

Method: Literature data.

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Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-

octanol/water

: log Pow: 3,16Method: Literature data.

**Components:** 

Xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Exposure time: 56 d

Bioconcentration factor (BCF): 29

Method: Literature data.

Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-

octanol/water **Ethylbenzene**:

: log Pow: 3,16Method: Literature data.

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil

particles and will not be mobile.

**Components:** 

Xylene:

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil

particles and will not be mobile.

Ethylbenzene:

Mobility : Remarks: If the product enters soil, one or more constituents

will or may be mobile and may contaminate groundwater.,

Floats on water.

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : The substance does not fulfill all screening criteria for

persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

Components:

Xylene:

Assessment : The substance does not fulfill all screening criteria for

persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

12.6 Other adverse effects

**Components:** 

Ethylbenzene:

Additional ecological

information

: In view of the high rate of loss from solution, the product is

unlikely to pose a significant hazard to aquatic life.

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Recover or recycle if possible.

> It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water courses

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations. preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture,

cut or weld uncleaned drums.

Send to drum recoverer or metal reclaimer.

Comply with any local recovery or waste disposal regulations.

Local legislation

### **SECTION 14: Transport information**

### 14.1 UN number

**ADR** 1307 **IMDG** : 1307 IATA : 1307

14.2 Proper shipping name

**ADR** : XYLENES

	ON ETT DIVINGUILLE	
		Xylene
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IMDG	: XYLENES	
IATA	: XYLENES	

14.3 Transport hazard class

ADR : 3 IMDG : 3 IATA : 3

### 14.4 Packing group

**ADR** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III
Labels : 3
IATA
Packing group : III
Labels : 3

#### 14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Y Ship type : 2

Product name : Xylene (Mixed Isomers)

**Additional Information**: This product may be transported under nitrogen blanketing.

Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a

confined space entry.

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Other regulations : The regulatory information is not intended to be

comprehensive. Other regulations may apply to this material.

### The components of this product are reported in the following inventories:

AICS : Listed DSL : Listed **IECSC** : Listed **ENCS** Listed KECI : Listed **NZIoC** Listed **PICCS** : Listed **TSCA** : Listed **TCSI** : Listed

#### **SECTION 16: Other information**

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g.

scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial

**Hvaienists** 

ADR = European Agreement concerning the International

Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

DSL = Canada Domestic Substance List

EC = European Commission

EC50 = Effective Concentration fifty

ECETOC = European Center on Ecotoxicology and

**Toxicology Of Chemicals** 

ECHA = European Chemicals Agency

EINECS = The European Inventory of Existing Commercial

Chemical Substances

EL50 = Effective Loading fifty

ENCS = Japanese Existing and New Chemical Substances

Inventory

EWC = European Waste Code

GHS = Globally Harmonised System of Classification and

Labelling of Chemicals

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

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	IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangero INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test me determination of polycyclic aromatics D KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loa LL50 = Lethal Loading fifty MARPOL = International Convention for Pollution From Ships NOEC/NOEL = No Observed Effect Co Observed Effect Level OE_HPV = Occupational Exposure - Hi PBT = Persistent, Bioaccumulative and PICCS = Philippine Inventory of Chemi Substances PNEC = Predicted No Effect Concentra REACH = Registration Evaluation And Chemicals RID = Regulations Relating to Internation Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control TWA = Time-Weighted Average vPvB = very Persistent and very Bioaco	thod N° 346 for the MSO-extractables ntory  ading/Inhibitory loading r the Prevention of ncentration / No agh Production Volume Toxic cals and Chemical ation Authorisation Of onal Carriage of			
Further information	<b>5</b>				
Training advice	<ul> <li>Provide adequate information, instruction operators.</li> </ul>	on and training for			
Other information	: A vertical bar ( ) in the left margin indication from the previous version.	ates an amendment			
	There has been a significant change in controls/personal protection requirement				
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limite sources of information (e.g. toxicologica Health Services, material suppliers' dat IUCLID date base, EC 1272 regulation,	al data from Shell a, CONCAWE, EU			

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.