Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830. - United Kingdom (UK)

# SAFETY DATA SHEET

**Perfection Part B** 

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

## 1.1 Product identifier

: Perfection Part B

Product name Product code

: YGB001

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

Identified u	ISES
Consumer application of coatings Professional application of coatings and inks	
Uses advised against	Reason
All Other Uses	

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

International Paint Ltd. Stoneygate Lane Felling Gateshead Tyne and Wear NE10 0JY UK Tel: +44 (0)191 469 6111	Fax: +44 (0)191 438 3711
e-mail address of person responsible for this SDS	: sdsfellinguk@akzonobel.com

National contact

### 1.4 Emergency telephone number

National advisory body/Poison Centre (For use only by licensed medical professionals.)

Telephone number	: +44 (0)844 892 0111
<u>Supplier</u>	
Telephone number	: +44 (0)191 469 6111 (24H)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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# **Ingredients of unknown** : Contains 10.8 % of components with unknown hazards to the aquatic environment ecotoxicity

See Section 16 for the full text of the H statements declared above.



# **SECTION 2: Hazards identification**

See Section 11 for more detailed information on health effects and symptoms.

Hazard pictograms

:			
	Danger		

Signal word	:	Danger
Hazard statements	:	Flammable liquid and vapour. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. May cause respiratory irritation.
Precautionary statements		
General	:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area.
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Take off contaminated clothing and wash it before reuse.
Storage	:	Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Hexamethylene diisocyanate, oligomers xylene hexamethylene-di-isocyanate
Supplemental label elements	:	Contains isocyanates. May produce an allergic reaction.
		Wear appropriate respirator when ventilation is inadequate.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		

Other hazards which do	:	None known.
not result in classification		



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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Nota (s)	Туре
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
2-methoxy- 1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥10 - ≤25	Flam. Liq. 3, H226	-	[2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	С	[1] [2]
triethyl orthoformate	EC: 204-550-4 CAS: 122-51-0	≤3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
hexamethylene-di- isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	≤0.2	Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	2	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

### <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

	Nota
	(s)
SECTION 4: First aid measures	

#### 4.1 Description of first aid measures

General	<ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.</li> </ul>
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.





# **SECTION 4: First aid measures**

Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Eye contact	Causes serious eye irritation.
•	
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.
<u>)ver-exposure signs/sy</u>	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/o sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest.</li> <li>Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.</li> <li>Adverse symptoms may include the following:</li> <li>Repeated exposure may lead to permanent respiratory disability.</li> <li>respiratory tract irritation coughing headache</li> <li>drowsiness/fatigue</li> <li>dizziness/vertigo</li> <li>muscle weakness</li> <li>unconsciousness</li> </ul>
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	<ul> <li>Adverse symptoms may include the following: nausea or vomiting</li> </ul>

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

• • •			•	
For non-emergency personnel	:	Evacuate surrounding areas. Ke entering. Do not touch or walk th No flares, smoking or flames in h	g any personal risk or without suitabl ep unnecessary and unprotected pe irough spilt material. Shut off all igni azard area. Avoid breathing vapour ear appropriate respirator when vent personal protective equipment.	ersonnel from ition sources. • or mist.
For emergency responders	:		to deal with the spillage, take note on the and unsuitable materials. See also cy personnel".	
6.2 Environmental precautions	:		nd runoff and contact with soil, wate authorities if the product has caused I or air).	
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	explosion-proof equipment. Dilut Alternatively, or if water-insoluble	ontainers from spill area. Use spark- te with water and mop up if water-so e, absorb with an inert dry material ar iner. Dispose of via a licensed wast	luble. nd place in an
Large spill	:	explosion-proof equipment. Appr sewers, water courses, basemen effluent treatment plant or procee combustible, absorbent material and place in container for disposa container. The contaminated are decontaminant. One possible (fla water (45 parts), ethanol or isopro-	ontainers from spill area. Use spark- roach the release from upwind. Pre- to or confined areas. Wash spillage ed as follows. Contain and collect sp e.g. sand, earth, vermiculite or diato al according to local regulations. Pla ea should be cleaned immediately wi immable) decontaminant comprises opyl alcohol (50 parts) and concentra n-flammable alternative is sodium ca	vent entry into es into an billage with non- maceous earth ace in a suitable (th a suitable (by volume): ated (d: 0,880)
Date of issue/Date of revision		: 28/04/2017		czoNobel
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parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Vapours are heavier than air and may spread along floors. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.



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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**X**International

## 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient na	ame	Exposure limit values
, , , ,		EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser. STEL: 0.07 mg/m <sup>3</sup> , (as NCO) 15 minutes. TWA: 0.02 mg/m <sup>3</sup> , (as NCO) 8 hours.
2-methoxy-1-methylethyl acetate		EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 548 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
xylene		EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
hexamethylene-di-isocyanate		EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser. STEL: 0.07 mg/m³, (as NCO) 15 minutes. TWA: 0.02 mg/m³, (as NCO) 8 hours.
procedures	atmosphere or lo of the ventilation protective equip the following: E the assessment imit values and atmospheres - of exposure to of Workplace atmospheres or the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be
DNELs/DMELs No DNELs/DMELs available.		
<u>PNECs</u> No PNECs available		
controls	ventilation or of contaminants to controls also no	adequate ventilation. Use process enclosures, local exhaust ther engineering controls to keep worker exposure to airborne below any recommended or statutory limits. The engineering eed to keep gas, vapour or dust concentrations below any lower
Individual protection measures	explosive limits	<ol> <li>Use explosion-proof ventilation equipment.</li> </ol>

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# SECTION 8: Exposure controls/personal protection

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/ specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Solvent.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Lowest known value: 136.16°C (277.1°F) (xylene).
Date of issue/Date of revision	: 28/04/2017

# AkzoNobel

X.International.

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

Flash point	: Closed cup: 32°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1.04
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/	: Not available.
water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 11 mm <sup>2</sup> /s
Explosive properties	: Not available.
Oxidising properties	: Not available.

### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

## Acute toxicity

Result	Species	Dose	Exposure
LC50 Inhalation Vapour	Rat	18500 mg/m³	1 hours
LD50 Dermal	Rabbit	5000 mg/kg	-
LD50 Oral	Rat	8532 mg/kg	-
LD50 Oral	Rat	4300 mg/kg	-
LD50 Oral	Rat	7060 mg/kg	-
LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours
-	LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LC50 Inhalation Dusts and	LD50 DermalRabbitLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLC50 Inhalation Dusts andRat	LD50 DermalRabbit5000 mg/kgLD50 OralRat8532 mg/kgLD50 OralRat4300 mg/kgLD50 OralRat7060 mg/kgLD50 OralRat7060 mg/kgLC50 Inhalation Dusts andRat124 mg/m³

## Acute toxicity estimates

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# **SECTION 11: Toxicological information**

Route	ATE value
Dermal	10086.8 mg/kg
Inhalation (vapours)	13.75 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposur	e Observation
Hexamethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
triethyl orthoformate	Eyes - Moderate irritant	Rabbit	-	24 hours 10 milligrams	- 00
	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	- 00
Conclusion/Summary	: Not available.	·	•		·
<u>Sensitisation</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				
Product/ing	redient name	Category	-	ute of osure	Target organs
		O ata mamu 2	Matan	- Paralata 🖉 🗖	

		exposure	
Hexamethylene diisocyanate, oligomers	Category 3	Not applicable.	Respiratory tract irritation
xylene	Category 3	Not applicable.	Respiratory tract irritation
hexamethylene-di-isocyanate	Category 3	Not applicable.	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	

# Information on likely routes : Not available. of exposure

### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	<ul> <li>May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.</li> </ul>

## Symptoms related to the physical, chemical and toxicological characteristics





# **SECTION 11: Toxicological information**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest.</li> <li>Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.</li> <li>Adverse symptoms may include the following:</li> <li>Repeated exposure may lead to permanent respiratory disability.</li> <li>respiratory tract irritation</li> <li>coughing</li> <li>headache</li> <li>drowsiness/fatigue</li> <li>dizziness/vertigo</li> <li>muscle weakness</li> <li>unconsciousness</li> </ul>
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: nausea or vomiting

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

## **Other information** : Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish	96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours

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## **SECTION 12: Ecological information**

**Conclusion/Summary** : Not available.

12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers	5.54	-	high
2-methoxy-1-methylethyl acetate	1.2	-	low
xylene	3.12	8.1 to 25.9	low
triethyl orthoformate	1.2	-	low
hexamethylene-di- isocyanate	0.02	57.63	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

## Product

Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.</li> </ul>
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Code number	Waste designation
EWC 08 05 01*	waste isocyanates
Packaging	·
Methods of disposal	:
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

:



# **SECTION 14: Transport information**



	-	•	
	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	111	111
14.5 Environmental hazards	No.	No.	No.
Additional information	<u>Special provisions</u> 640 (E) <u>Tunnel code</u> (D/E)	-	-

IMDG Code Segregation : Not applicable. group

**14.6 Special precautions for : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to Annex II of	
Marpol and the IBC Code	

**SECTION 15: Regulatory information** 

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

### Annex XIV - List of substances subject to authorisation

#### <u>Annex XIV</u>

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

**Europe inventory** 

: All components are listed or exempted.

#### **Special packaging requirements**

**Containers to be fitted** : Yes, applicable. with child-resistant fastenings

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## **SECTION 15: Regulatory information**

# Tactile warning of danger : Yes, applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## **National regulations**

- References
- : Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)
- 15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vDvB = Very Dereitert and Very Riseseumulative</li> </ul>
	vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H226 H304 H312 H315 H317 H319 H330 H332 H334 H335	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Full text of classifications [CLP/GHS]	: Acute Tox. 2, H330 Acute Tox. 4, H312 Acute Tox. 4, H312 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Resp. Sens. 1, H334 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	ACUTE TOXICITY (inhalation) - Category 2 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Date of issue/Date of revision	: 28/04/2017 14/15	AkzoNobel

## **SECTION 16: Other information**

Date of printing	: 28/04/2017
Date of issue/ Date of revision	: 28/04/2017
Date of previous issue	: 06/06/2016
Version	: 3

## Notice to reader

IMPORTANT NOTE: the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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