

: GHS product identifier

: Supplier's details

# **SAFETY DATA SHEET**

# Interbond 1202UPC HTA160 Metallic Grey Part A

# Section 1. Identification

Interbond 1202UPC HTA160 Metallic Grey Part A

HTA160 : Product code

Identified uses			
Professional application of coatings and inks			
Uses advised against Reason			
All Other Uses			

AkzoNobel Saudi Arabia Ltd.

PO Box 37 Dammam 31411 Saudi Arabia

+966 55 388 0087

Tel: +966 3 812 1044 Fax: +966 3 812 1169

+966 3 812 1044 : **Emergency telephone** 

number (with hours of

operation)

: National advisory body/ Poison Centre (For use only

by licensed medical professionals.)

sdsfellinguk@akzonobel.com : e-mail address of person responsible for this SDS

# **Section 2. Hazards identification**

FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS) and hearing organs) - Category 1

LONG-TERM AQUATIC HAZARD - Category 2

: Classification of the substance or mixture

## **GHS label elements**









: Hazard pictograms

: Hazard statements

: Signal word

Danger

Flammable liquid and vapour. Causes mild skin irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs)

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Date of issue/Date of revision Version : 1 : 28/03/2018



# Section 2. Hazards identification

Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe gas, vapour or spray.

: Prevention

Collect spillage. Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical attention.

: Response

Store locked up. Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Wear appropriate respirator when ventilation is inadequate. : Supplemental label

elements

: Storage

: Disposal

None known. : Other hazards which do not

result in classification

# Section 3. Composition/information on ingredients

Mixture : Substance/mixture

Classification	CAS number	% by weight	Ingredient name
Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411	1174921-79-9	≥10 - ≤25	Hydrocarbons, C9-C12
Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411	64742-82-1	≥10 - ≤25	Naphtha (petroleum), hydrodesulfurized heavy
Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304	1330-20-7	≤5	xylene
Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	100-41-4	≤2.1	ethylbenzene

Date of issue/Date of revision

Version : 1



# Section 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

# Section 4. First aid measures

## **Description of necessary first aid measures**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

: Eye contact

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

: Inhalation

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

: Skin contact

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

: Ingestion

## Most important symptoms/effects, acute and delayed

# Potential acute health effects

No known significant effects or critical hazards. : **Eye contact**Can cause central nervous system (CNS) depression. May cause drowsiness or : **Inhalation** 

dizziness.

Causes mild skin irritation. : Skin contact

Can cause central nervous system (CNS) depression. Irritating to mouth, throat and : Ingestion

stomach.

Over-exposure signs/symptoms

Adverse symptoms may include the following: : Eye contact

pain or irritation

watering redness

Adverse symptoms may include the following: : Inhalation

nausea or vomiting

headache

drowsiness/fatigue

dizziness/vertigo

muscle weakness

unconsciousness

Adverse symptoms may include the following:

irritation redness

Date of issue/Date of revision : 28/03/2018

**Version** : 1 3/12

: Skin contact



# Section 4. First aid measures

No specific data. : Ingestion

## Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No specific treatment.

: Specific treatments

: Notes to physician

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

: Protection of first-aiders

providing aid to give mouth-to-mouth resuscitation.

# See toxicological information (Section 11)

# Section 5. Firefighting measures

## **Extinguishing media**

Use dry chemical, CO2, water spray (fog) or foam.

: Suitable extinguishing

media

Do not use water jet.

: Unsuitable extinguishing media

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

: Specific hazards arising from the chemical

Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides : Hazardous thermal decomposition products

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 actions 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.

: Special protective equipment for fire-fighters

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

: For non-emergency personnel

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

: For emergency responders

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

: Environmental precautions

Date of issue/Date of revision

: 28/03/2018 Version: 1



# Section 6. Accidental release measures

## Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and : Small spill explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and : Large spill explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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.

: Protective measures

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. See also Section 8 for additional information on hygiene measures.

: Advice on general occupational hygiene

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 wellventilated 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.

: Conditions for safe storage, including any incompatibilities

# Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

Exposure limits	Ingredient name
ACGIH TLV (United States, 3/2015).	xylene
STEL: 651 mg/m³ 15 minutes.	
STEL: 150 ppm 15 minutes.	
TWA: 434 mg/m <sup>3</sup> 8 hours.	
TWA: 100 ppm 8 hours.	
ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours.	ethylbenzene

Date of issue/Date of revision Version: 1



# Section 8. Exposure controls/personal protection

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

: Appropriate engineering 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.

: Environmental exposure controls

## Individual protection measures

Wash hands, forearms and face thoroughly after handling chemical products, before : Hygiene measures eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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.

: Eye/face protection

#### **Skin 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.

: Hand 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.

: Body 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.

: Other skin 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.

: Respiratory protection



: Odour threshold

# Section 9. Physical and chemical properties

**Appearance** 

Not available.

Liquid. : Physical state

Metallic. : Colour

Solvent. : Odour

: pH Not applicable.

Not available.

: Melting point : Boiling point

Lowest known value: >142°C (>287.6°F)(Hydrocarbons, C9-C12).

Closed cup: 37°C (98.6°F) : Flash point

Not available. : Evaporation rate

Not available. : Flammability (solid, gas)

: Lower and upper explosive Greatest known range: Lower: 1.4% Upper: 7.6% (Hydrocarbons, C9-C12)

Not available. : Vapour pressure

Not available. : Vapour density

: Relative density

Insoluble in the following materials: cold water. : Solubility

: Partition coefficient: n-Not available.

octanol/water

(flammable) limits

Not available. : Auto-ignition temperature

Not available. : Decomposition temperature

Kinematic (room temperature): 80 mm<sup>2</sup>/s (80 cSt) : Viscosity

# Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients. : Reactivity

The product is stable. : Chemical stability

Under normal conditions of storage and use, hazardous reactions will not occur. : Possibility of hazardous

reactions

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.

: Conditions to avoid

Reactive or incompatible with the following materials: : Incompatible materials

oxidizing materials

Under normal conditions of storage and use, hazardous decomposition products : Hazardous decomposition

should not be produced.

products

# **Section 11. Toxicological information**

## Information on toxicological effects

## Acute toxicity

Exposure	Dose	Species	Result	Product/ingredient name
	4300 mg/kg	Rat	LD50 Oral	xylene
	4000 ppm	Rabbit	LC50 Inhalation Gas.	ethylbenzene
-	17800 mg/kg	Rabbit	LD50 Dermal	
-	3500 mg/kg	Rat	LD50 Oral	

# Irritation/Corrosion

Date of issue/Date of revision : 28/03/2018

Version: 1 7/12



# Section 11. Toxicological information

Observation	Exposure	Score	Species	Result	Product/ingredient name
-	500	-	Rabbit	Eyes - Severe irritant	ethylbenzene
-	milligrams 24 hours 15 milligrams	-	Rabbit	Skin - Mild irritant	

## **Sensitisation**

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Target organs	Route of exposure	Category	Name
Narcotic effects Narcotic effects Respiratory tract irritation	Not applicable. Not applicable. Not applicable.	Category 3 Category 3 Category 3	Hydrocarbons, C9-C12 Naphtha (petroleum), hydrodesulfurized heavy xylene
Respiratory tract irritation	Not applicable.	Category 3	ethylbenzene

## <u>Specific target organ toxicity (repeated exposure)</u>

Target organs	Route of exposure	Category	Name
central nervous system (CNS)	Inhalation	Category 1	Hydrocarbons, C9-C12
central nervous system (CNS)	Inhalation	Category 1	Naphtha (petroleum), hydrodesulfurized heavy
hearing organs	Not determined	Category 2	ethylbenzene

## **Aspiration hazard**

Result	Name
ASPIRATION HAZARD - Category 1	Hydrocarbons, C9-C12
ASPIRATION HAZARD - Category 1	Naphtha (petroleum), hydrodesulfurized heavy
ASPIRATION HAZARD - Category 1	xylene
ASPIRATION HAZARD - Category 1	ethylbenzene

Not available. : Information on likely routes

of exposure

# Potential acute health effects

No known significant effects or critical hazards. : Eye contact : Inhalation

Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Causes mild skin irritation. : Skin contact

Can cause central nervous system (CNS) depression. Irritating to mouth, throat and : Ingestion

stomach.

Date of issue/Date of revision : 28/03/2018

Version: 1 8/12



: Eye contact

: Inhalation

# **Section 11. Toxicological information**

# Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following:

pain or irritation

watering redness

Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo muscle weakness

unconsciousness

Adverse symptoms may include the following:

irritation redness

No specific data.

: Skin contact

: Ingestion

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

Short term exposure

Not available. : Potential immediate

effects

Not available. : Potential delayed effects

Long term exposure

Not available. : Potential immediate

effects

: Potential delayed effects Not available.

Potential chronic health effects

Not available.

Causes damage to organs through prolonged or repeated exposure. : General

No known significant effects or critical hazards. : 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

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

ATE value	Route	
25643.4 mg/kg	Dermal	
201.5 mg/l	Inhalation (vapours)	

# **Section 12. Ecological information**

## **Toxicity**

Date of issue/Date of revision Version: 1

: 28/03/2018



# **Section 12. Ecological information**

Exposure	Species	Result	Product/ingredient name
48 hours	Crustaceans - Palaemonetes pugio	Acute LC50 8500 μg/l Marine water	xylene
96 hours	Fish - Pimephales promelas	Acute LC50 13400 µg/l Fresh water	
96 hours	Algae - Pseudokirchneriella subcapitata	Acute EC50 3.6 mg/l Fresh water	ethylbenzene
48 hours	Daphnia - Daphnia magna - Neonate	Acute LC50 18.4 to 25.4 mg/l Fresh water	
96 hours	Fish - Menidia menidia	Acute LC50 5.1 to 5.7 mg/l Marine water	

#### Persistence and degradability

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
Not readily	-	-	Hydrocarbons, C9-C12
Not readily	-	-	Naphtha (petroleum),
			hydrodesulfurized heavy
Readily	-	-	ethylbenzene

#### **Bioaccumulative potential**

Potential	BCF	LogPow	Product/ingredient name
high	10 to 2500	-	Hydrocarbons, C9-C12
high	10 to 2500	-	Naphtha (petroleum), hydrodesulfurized heavy
low	8.1 to 25.9	3.12	xylene
low	15	3.6	ethylbenzene

### **Mobility in soil**

Not available. : Soil/water partition coefficient (Koc)

No known significant effects or critical hazards.

# **Section 13. Disposal considerations**

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

: Disposal methods

: Other adverse effects

Date of issue/Date of revision Version : 1



# **Section 14. Transport information**

IATA	IMDG	UN	
UN1263	UN1263	UN1263	UN number
PAINT	PAINT. Marine pollutant (Hydrocarbons, C9-C12, Naphtha (petroleum), hydrodesulfurized heavy)	PAINT	UN proper shipping name
3	3	3	Transport hazard class(es)
III	III	III	Packing group
No.	Yes.	No.	Environmental hazards
The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	-	Additional information

Not applicable. : IMDG Code Segregation group

**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.

: Special precautions for user

Not available.

: Transport in bulk according to Annex II of Marpol and the IBC Code

# **Section 15. Regulatory information**

No known specific national and/or regional regulations applicable to this product (including its ingredients).

: Safety, health and environmental regulations specific for the product

# Section 16. Other information

#### **Justification**

Justification	Classification
On basis of test data	Flam. Lig. 3, H226
Calculation method	Skin Irrit. 3, H316
Calculation method	STOT SE 3, H336
Calculation method	STOT RE 1, H372 (central nervous system (CNS) and
	hearing organs)
Calculation method	Aquatic Chronic 2, H411

**History** 

28/03/2018 : Date of printing

28/03/2018 : Date of issue/Date of

revision

: Date of previous issue

Date of issue/Date of revision

No previous validation

Version : 1

: 28/03/2018



: Key to abbreviations

# Section 16. Other information

1 : Version

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Not available. : References

Indicates information that has changed from previously issued version.

#### 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.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Unless we have agreed to the contrary, all products are supplied by us subject to our standard terms and conditions of business, which include limitations of liability. Please make sure to refer to these and / or the relevant agreement which you have with AkzoNobel (or its affiliate, as the case may be).

© AkzoNobel

Date of issue/Date of revision Version : 1