

SAFETY DATA SHEET

Hypabond Part B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Hypabond Part B

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

Identified uses Curative Solution

1.3. Details of the supplier of the safety data sheet

Supplier Trade Grade Products Ltd.
 10,Victory Close
 Woolsbridge Industrial Park
 Three Legged Cross
 Wimbourne,Dorset
 BH 21 6SX
 01202 820177
 01202 814011

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Carc. Cat. 3;R40. R42/43. Xi;R36/37/38.

Human health

See section 11 for additional information on health hazards.

Environment

In the presence of water the product hardens to a solid mass which is not biodegradable.

2.2. Label elements

Contains DICHLOROMETHANE
 Diphenylmethane - diisocyanate, isomers and homologues
 DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
 DIPHENYLMETHANE-2,4'-DI-ISOCYANATE
 DIPHENYLMETHANE-2,2'-DI-ISOCYANATE

Labelling



Harmful

Risk Phrases

R36/37/38
 R40
 R42/43

Irritating to eyes, respiratory system and skin.
 Limited evidence of a carcinogenic effect.
 May cause sensitisation by inhalation and skin contact.

Safety Phrases

S23
 S25
 S26

 S36/37
 S38
 S45

 S60
 P4

Do not breathe vapour/spray.
 Avoid contact with eyes.
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Wear suitable protective clothing and gloves.
 In case of insufficient ventilation, wear suitable respiratory equipment.
 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 This material and its container must be disposed of as hazardous waste.
 Contains isocyanates. See information supplied by the manufacturer.

Hypabond Part B

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

DICHLOROMETHANE		60-100%
CAS-No.: 75-09-2	EC No.: 200-838-9	Registration Number: 01-2119480404-41
Classification (EC 1272/2008) Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40	
Diphenylmethane - diisocyanate, isomers and homologues		10-30%
CAS-No.: 9016-87-9	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE		1-5%
CAS-No.: 101-68-8	EC No.: 202-966-0	Registration Number: 01-2119457014-47
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43	
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE		1-5%
CAS-No.: 5873-54-1	EC No.: 227-534-9	Registration Number: 01-2119480143-45-0000
Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43	

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DIPHENYLMETHANE-2,2'-DI-ISOCYANATE		<1%
CAS-No.: 2536-05-2	EC No.: 219-799-4	Registration Number: 01-21199227323-43
Classification (EC 1272/2008)		Classification (67/548/EEC)
Acute Tox. 4 - H332		Carc. Cat. 3;R40
Skin Irrit. 2 - H315		Xn;R20,R48/20
Eye Irrit. 2 - H319		Xi;R36/37/38
Resp. Sens. 1 - H334		R42/43
Skin Sens. 1 - H317		
Carc. 2 - H351		
STOT SE 3 - H335		
STOT RE 2 - H373		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Isocyanate solution in non flammable solvent

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove victim immediately from source of exposure.

Inhalation

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention. In case of serious over exposure to chlorinated solvents, the person affected should not resume work until medical attention has been received

Ingestion

DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Wash skin thoroughly with soap and water for several minutes.

Eye contact

Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Skin irritation.

Eye contact

May cause severe irritation to eyes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

Do not use water as an extinguisher.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

If heated, vapours/gases hazardous to health (e.g. CO, NOx, HCl, isocyanates) may be formed.

Hypabond Part B

Specific hazards

Toxic gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen chloride (HCl). Isocyanate vapours

5.3. Advice for firefighters

Special Fire Fighting Procedures

NOTE! Use air-supplied respirators to protect against gases/fumes.

Protective equipment for fire-fighters

Wear full protective clothing. Use air-supplied respirator during fire fighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m3(Sk)	300 ppm(Sk)	1060 mg/m3(Sk)	
Diphenylmethane - diisocyanate, isomers and homologues	WEL		0.02 mg/m3		0.07 mg/m3	
DIPHENYLMETHANE-2,2'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

Hypabond Part B**DICHLOROMETHANE (CAS: 75-09-2)**

DNEL				
Industry	Inhalation.	Long Term	Local Effects	353 mg/m3
Industry	Dermal	Long Term	Local Effects	4750 mg/kg/day
Industry	Inhalation.	Short Term	Local Effects	706 mg/m3
Consumer	Inhalation.	Long Term	Local Effects	88.3 mg/m3
Consumer	Oral	Short Term	Local Effects	0.06 mg/kg/day
Consumer	Inhalation.	Short Term	Local Effects	353 mg/m3
Consumer	Dermal	Short Term	Local Effects	2395 mg/kg/day
PNEC				
Freshwater	0.54	mg/l		
Marinewater	0.194	mg/l		
Intermittent release	0.27	mg/l		
Sediment (Freshwater)	0.972	mg/kg		
Sediment (Marinewater)	0.349	mg/kg		
STP	26	mg/l		
Soil	0.972	mg/kg		

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

DNEL				
Industry	Dermal	Short Term	Local Effects	28.7 mg/m3
Industry	Inhalation.	Short Term	Local Effects	0.1 mg/m3
Industry	Dermal	Long Term	Systemic Effects	no quantitative risk assessment
Industry	Inhalation.	Long Term	Systemic Effects	0.05 mg/m3
Industry	Dermal	Long Term	Local Effects	no quantitative risk assessment
Industry	Inhalation.	Long Term	Local Effects	0.05 mg/m3
PNEC				
Industry	Freshwater	Long Term	>1 mg/l	
Industry	Marinewater	Long Term	> 0.1 mg/l	
Industry	Sediment (Freshwater)	Long Term	Not relevant	
Industry	Soil	Long Term	> 1 mg/kg	
Industry	STP	Long Term	> 1 mg/l	

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

DNEL				
Industry	Dermal	Short Term	Systemic Effects	50 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	0.1 mg/m3
Industry	Dermal	Short Term	Local Effects	28.7 mg/m3
Industry	Inhalation.	Short Term	Local Effects	0.1 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	0.05 mg/m3
Industry	Inhalation.	Long Term	Local Effects	0.05 mg/m3
PNEC				
Industry	Freshwater	Long Term	> 1 mg/l	
Industry	Marinewater	Long Term	> 0.1 mg/l	
Industry	Soil	Long Term	> 1 mg/kg	
Industry	STP	Long Term	> 1 mg/l	

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE (CAS: 2536-05-2)

DNEL				
Industry	Dermal	Short Term	Systemic Effects	50 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	0.1 mg/m3
Industry	Dermal	Short Term	Local Effects	28.7 mg/m3
Industry	Inhalation.	Short Term	Local Effects	0.1 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	0.05 mg/m3
Industry	Inhalation.	Long Term	Local Effects	0.05 mg/m3
PNEC				
Freshwater	> 1	mg/l		
Marinewater	> 0.1	mg/l		
Soil	> 1	mg/kg		
STP	> 1	mg/l		

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Hypabond Part B

Engineering measures

Provide adequate general and local exhaust ventilation. Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory equipment

In case of inadequate ventilation use suitable respirator.

Hand protection

Protective gloves should be used if there is a risk of direct contact or splash.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Hygiene measures

Wash promptly if skin becomes contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Dark coloured liquid.
Colour	Brown.
Odour	Chlorinated hydrocarbons.
Initial boiling point and boiling range (°C)	41
Relative density	1.30- - 1.32
Viscosity	less than 50 cP @ 20 °c
Flash point (°C)	n/a CC (Closed cup).

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Exothermic reaction with: Alcohols, glycols. The product reacts with water and will generate heat.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Exothermic reaction with amines & alcohols, Reaction with water produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups

10.4. Conditions to avoid

Isocyanates react with water amines and acids with generation of heat. In the case of water, carbon dioxide is evolved and closed containers may rupture due to pressure increase if contaminated with moisture

10.5. Incompatible materials

Materials To Avoid

Water reactive material. Alcohols, glycols. Amines. Isocyanates react with water, alcohols, amines and acids with generation of heat. In the case of water carbon dioxide gas is evolved and closed containers may rupture due to pressure increase if contaminated with water.

10.6. Hazardous decomposition products

Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Isocyanates

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system. Contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in hazardous vapour concentrations.

Hypabond Part B

Inhalation

Inhalation is the most significant route of exposure to solvents. Chlorinated solvents affect the central nervous system giving rise to symptoms which include light headedness, headache, drowsiness and fatigue. Irritating to respiratory system. May cause sensitisation by inhalation.

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

Health Warnings

Dichloromethane is converted by the body to carbon monoxide giving raised carboxyhaemoglobin levels. Dichloromethane is classified within the EEC as a category 3 carcinogen and is labelled with R40-Limited evidence of a carcinogenic effect.

Toxicological information on ingredients.

DICHLOROMETHANE (CAS: 75-09-2)

Other Health Effects

Suspect Cancer Hazard.

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2100 mg/kg Rat

Acute Toxicity (Inhalation LC50)

49 mg/l (vapours) Mouse 4 hours

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

Toxic Dose 1 - LD 50

> 2,000 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

0.368 mg/l (dust/mist) Rat 4 hours

Respiratory or skin sensitisation:

Respiratory sensitisation

Not determined.

Guinea Pig

Skin sensitisation

Not determined.

Buehler test: Guinea Pig

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

0.387 mg/l (dust/mist) Rat 4 hours

Respiratory or skin sensitisation:

Skin sensitisation

Buehler test: Guinea Pig

Not Sensitising.

Hypabond Part B**DIPHENYLMETHANE-2,2'-DI-ISOCYANATE (CAS: 2536-05-2)****Acute toxicity:**

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

0.527 mg/l (dust/mist) Rat 4 hours

Diphenylmethane - diisocyanate, isomers and homologues (CAS: 9016-87-9)**Acute toxicity:**

Acute Toxicity (Oral LD50)

> 10000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 9400 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

0.31 mg/l (vapours) Rat 4 hours

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment if discharged into watercourses. The resin reacts with water at the interface forming carbon dioxide & a solid product with a high melting point (polyurea). Polyurea is inert & non-degradable

12.1. Toxicity

Hypabond Part B

Ecological information on ingredients.

DICHLOROMETHANE (CAS: 75-09-2)

LC 50, 96 Hrs, Fish mg/l

224

EC 50, 48 Hrs, Daphnia, mg/l

480

IC 50, 72 Hrs, Algae, mg/l

662

Acute Toxicity - Aquatic Plants

NOEC 550 mg/l Scenedesmus subspicatus

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

Acute Toxicity - Fish

LC50 96 hours > 1000 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC50 192 hours > 10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours > 1, 640 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

Acute Toxicity - Terrestrial

NOEC 14 days > 1, 000 mg/kg Eisenia Fetida (Earthworm)

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Acute Toxicity - Fish

LC50 96 hours > 1, 000 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 1, 000 mg/l Daphnia magna

NOEC 192 hours > 10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 3 hours > 1, 640 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

Acute Toxicity - Terrestrial

NOEC 14 days > 1, 000 mg/kg Eisenia Fetida (Earthworm)

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE (CAS: 2536-05-2)

Acute Toxicity - Fish

LC50 96 hours > 1, 000 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 1000 mg/l Daphnia magna

NOEC 192 hours > 10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours > 1, 640 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

Acute Toxicity - Terrestrial

NOEC 14 days > 1, 000 mg/kg Eisenia Fetida (Earthworm)

Diphenylmethane - diisocyanate, isomers and homologues (CAS: 9016-87-9)

Acute Toxicity - Fish

LC50 96 hours > 1, 000 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 1, 000 mg/l Daphnia magna

NOEC 192 hours > 10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC0 72 hours 1, 640 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

Acute Toxicity - Terrestrial

LC50 14 days > 1, 000 mg/kg Eisenia Fetida (Earthworm)

12.2. Persistence and degradability

Hypabond Part B

Degradability

The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

Ecological information on ingredients.

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

Stability (Hydrolysis)

Half-life: 20 hours 25

Hydrolyzes rapidly in water

Water and Sediment 0 28 days

No degradation observed

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Phototransformation

Air. Half-life: 0.92 days

Stability (Hydrolysis)

pH7 Half-life: 20 hours 25

Hydrolyzes rapidly in water

Biodegradation

Water Degradation (0%) 28 days

Not readily biodegradable

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE (CAS: 2536-05-2)

Stability (Hydrolysis)

Half-life: 20 hours 25

Diphenylmethane - diisocyanate, isomers and homologues (CAS: 9016-87-9)

Degradability

The product is not readily biodegradable.

Biodegradation

Degradation (0%) < 28 days

No degradation observed

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

DICHLOROMETHANE (CAS: 75-09-2)

Bioaccumulation factor

BCF 0.91

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

Bioaccumulation factor

BCF 200 Cyprinus carpio (Common carp)

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Bioaccumulation factor

BCF 200 Cyprinus carpio (Common carp)

An accumulation in aquatic organisms is not to be expected

Diphenylmethane - diisocyanate, isomers and homologues (CAS: 9016-87-9)

Bioaccumulation factor

BCF < 14 Cyprinus carpio (Common carp)

High

12.4. Mobility in soil

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Hypabond Part B

Ecological information on ingredients.

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

Henry's Law Constant
0.0229 Pa m³/mol

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Henry's Law Constant
0.229 Pa m³/mol
The substance has to be scored as being slightly volatile from water

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE (CAS: 2536-05-2)

Henry's Law Constant
0.229 Pa m³/mol
The substance has to be scored as being slightly volatile from water

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

DICHLOROMETHANE (CAS: 75-09-2)

This product does not contain any PBT or vPvB substances.

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

This product does not contain any PBT or vPvB substances.

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE (CAS: 5873-54-1)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1593
UN No. (IMDG)	1593
UN No. (ICAO)	1593

14.2. UN proper shipping name

Proper Shipping Name	DICHLOROMETHANE
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	6.1
ADR/RID/ADN Class	Class 6.1: Toxic substances.
ADR Label No.	6.1
IMDG Class	6.1
ICAO Class/Division	6.1
Transport Labels	

Hypabond Part B

**14.4. Packing group**

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-A, S-A
Emergency Action Code	2Z
Hazard No. (ADR)	60
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002.

Environmental Listing

Control of Pollution Act 1974.

Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC.

National Regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Water hazard classification

The resin reacts with water at the interface forming carbon dioxide and a solid insoluble product (polyurea)

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADR : European Agreement concerning the International Transport of Dangerous Goods by Road RID : Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG : International Maritime Code for Dangerous Goods IATA : International Air Transport Association ICAO : International Civil Aviation Organization GHS : Globally Harmonized System of Classification and Labelling of Chemicals EINECS : European Inventory of Existing Commercial Chemical Substances CAS : Chemical Abstracts Service DNEL ; Derived No Effect Level (REACH) PNEC : Predicted No Effect Concentration (REACH) LC50 : Lethal Concentration 50 percent LD50 : Lethal Dose 50 percent

