

Revision Date: 20/10/2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name Timbond 30 Min Polyurethane (PU) Adhesive 1.1kg
Product code AD056001

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

Identified uses Adhesive.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Adkwik
Unit F
Dales Manor Business Park
Grove Road, Sawston, Cambridge
CB22 3TJ
T: 01223 412373
E: tech@adkwik.co.uk
www.adkwik.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 01223 412373 (NOT 24HRS)
Working Hours: Weekdays: 8am- 4.30pm (GMT)
National emergency telephone number National Poisons Information Service (UK) TEL: 0844 892 0111
(healthcare professionals only)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (SI 2019 No. 720)**

Physical hazards Not Classified

Health hazards 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

Environmental hazards Not Classified

Human health Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

EUH204 Contains isocyanates. May produce an allergic reaction.
 P260 Do not breathe vapour/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P281 Use personal protective equipment as required.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.
 RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
 RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
 RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Supplemental label information

As from 24 August 2023, adequate training is required before industrial or professional use

Contains

diphenylmethane-diisocyanate, isomers and homologues, DIPHENYLMETHANE-4,4'-DIISOCYANATE, DIPHENYLMETHANE-2,4'-DI-ISOCYANATE, DIPHENYLMETHANE-2,2'-DIISOCYANATE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

diphenylmethane-diisocyanate, isomers and homologues

10-30%

CAS number: 9016-87-9

Classification

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

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

10-30%

CAS number: 101-68-8 EC number: 202-966-0

Classification

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

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE

1-5%

CAS number: 5873-54-1 EC number: 227-534-9

Classification

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

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE

<1%

CAS number: 2536-05-2 EC number: 219-799-4

Classification

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

Orthophosphoric acid 85%

<1%

CAS number: 7664-38-2 EC number: 231-633-2

Classification

Met. Corr. 1 - H290
Acute Tox. 4 - H302
Skin Corr. 1B - H314

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information	Remove affected person from source of contamination
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Irritating gases or vapours.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Special protective equipment for firefighters	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Usage precautions Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 5°C and 25°C.

Storage class Chemical storage.

7.3. Specific end use(s)

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****Occupational exposure limits****diphenylmethane-diisocyanate, isomers and homologues**

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³

Short-term exposure limit (15-minute): WEL 0.07 mg/m³

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

DIPHENYLMETHANE-2,2'-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

Orthophosphoric acid 85%Long-term exposure limit (8-hour TWA): WEL 1 mg/m³Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits**diphenylmethane-diisocyanate, isomers and homologues (CAS: 9016-87-9)****Ingredient comments** WEL = Workplace Exposure Limits**DNEL**

Workers - Dermal; Short term systemic effects: 50 mg/kg
 Workers - Inhalation; Short term systemic effects: 0.1 mg/m³
 Workers - Dermal; Short term local effects: 28.7 mg/cm²
 Workers - Inhalation; Short term local effects: 0.1 mg/m³
 Workers - Inhalation; Long term systemic effects: 0.05 mg/m³
 Workers - Inhalation; Long term local effects: 0.05 mg/m³
 General population - Dermal; Short term systemic effects: 25 mg/kg
 General population - Inhalation; Short term systemic effects: 0.05 mg/m³
 General population - Oral; Short term systemic effects: 20 mg/kg
 General population - Dermal; Short term local effects: 17.2 mg/cm²
 General population - Inhalation; Short term local effects: 0.05 mg/m³
 General population - Inhalation; Long term systemic effects: 0.025 mg/m³
 General population - Inhalation; Long term local effects: 0.025 mg/m³

PNEC

- Fresh water; 1 mg/l
 - marine water; 0.1 mg/l
 - Soil; 1 mg/kg dry weight
 - STP; 1 mg/l

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

Workers - Inhalation; Short term systemic effects: 0.1 mg/m³
 Workers - Dermal; Short term local effects: 28.7 mg/cm²
 Workers - Inhalation; Short term local effects: 0.1 mg/m³
 Workers - Inhalation; Long term systemic effects: 0.05 mg/m³
 Workers - Inhalation; Long term local effects: 0.05 mg/m³
 Consumer - Dermal; Short term systemic effects: 25 mg/kg bw/day
 Workers - Dermal; Short term systemic effects: 50 mg/kg bw/day
 Consumer - Oral; Short term systemic effects: 20 mg/kg bw/day
 Consumer - Dermal; Short term local effects: 17.2 mg/cm²
 Consumer - Inhalation; Short term local effects: 0.05 mg/m³
 Consumer - Inhalation; Long term systemic effects: 0.025 mg/m³
 Consumer - Inhalation; Long term local effects: 0.025 mg/m³
 Consumer - Inhalation; Short term systemic effects: 0.05 mg/m³

PNEC

- marine water; 0.1 mg/l
 - STP; 1 mg/l
 - Fresh water; 1 mg/l
 - Soil; 1 mg/kg

2,2'DIMORPHOLINYLDIETHYL ETHER (CAS: 6425-39-4)

DNEL Workers - Inhalation; Long term systemic effects: 7.28 mg/m³
 Workers - Dermal; Long term systemic effects: 1 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 1.8 mg/m³
 Consumer - Dermal; Long term systemic effects: 0.5 mg/kg bw/day
 Consumer - Oral; Long term systemic effects: 0.5 mg/kg bw/day

PNEC - Fresh water; 0.1 mg/l
 - marine water; 0.01 mg/l
 - Intermittent release; 1 mg/l
 - Sediment (Freshwater); 8.2 mg/kg
 - Sediment (Marinewater); 0.82 mg/kg
 - STP; 100 mg/l
 - Soil; 1.58 mg/kg

Dioclyltindilaurat - PIC & SVHC (CAS: 3648-18-8)

DNEL Consumer - Oral; Long term systemic effects: 0.0005 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 0.0009 mg/kg bw/day
 Workers - Inhalation; Long term systemic effects: 0.0035 mg/m³

8.2. Exposure controls

Protective equipment


Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. This product is not to be used under conditions of poor ventilation. This product must not be handled in a confined space without adequate ventilation. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter is used.

Eye/face protection

Wear chemical splash goggles.

Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Wear a respirator fitted with the following cartridge: ABEK2- P3 Particulate filter, type P3. When spraying, wear a suitable supplied-air respirator. Adequate ventilation would be not less than 3 to 5 air changes per hour in the work area. Open windows and doors to provide ventilation.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Appearance Coloured liquid.
Colour Brown.
Odour Musty (mouldy).

Odour threshold	Not available.
pH	Not available.
Melting point	<10°C
Initial boiling point and range	330°C @ mbar
Flash point	>200°C Closed cup.
Evaporation rate	slow
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not available.
Vapour pressure	0.01 Pa @ °C
Vapour density	8.5
Relative density	1.12 @ 20°C
Bulk density	Not relevant.
Solubility(ies)	Insoluble in water. Hardens in contact with water.
Partition coefficient	Not available.
Auto-ignition temperature	>600°C
Decomposition Temperature	Not available.
Viscosity	Kinematic viscosity > 20.5 mm ² /s.
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.
9.2. Other information	
Other information	No information required.
Refractive index	Not available.
Particle size	Not available.
Molecular weight	Not available.
Volatility	Not available.
Saturation concentration	Not available.
Critical temperature	Not available.
Volatile organic compound	Not relevant.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity The product will harden into a solid mass in contact with water and moisture.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. May polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with water.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 10,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 10,000.0

Species Rabbit

Acute toxicity - inhalation

Species Rat

ATE inhalation (dusts/mists mg/l) 2.73

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Sensitising.

Carcinogenicity

Carcinogenicity Suspected carcinogen based on limited evidence.

Target organ for carcinogenicity No specific target organs known.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Asthma, pulmonary sensitisation.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Acute and chronic health hazards May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of exposure Inhalation Skin and/or eye contact

Medical symptoms Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Medical considerations Chronic respiratory and obstructive airway diseases.

Toxicological information on ingredients.**diphenylmethane-diisocyanate, isomers and homologues****Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 10,000.0

Species Rat

ATE oral (mg/kg) 10,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 9,400.0

Species Rabbit

ATE dermal (mg/kg) 9,400.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 1.5

Species Rat

ATE inhalation (dusts/mists mg/l) 1.5

Skin corrosion/irritation
Animal data Irritating.

Serious eye damage/irritation
Serious eye damage/irritation Moderately irritating.

Respiratory sensitisation
Respiratory sensitisation Sensitising.

Carcinogenicity
Carcinogenicity Suspected carcinogen based on limited evidence.

Target organ for carcinogenicity No specific target organs known.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity
Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard
Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes

Acute and chronic health hazards May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of exposure Inhalation Skin and/or eye contact

Medical symptoms Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Medical considerations Chronic respiratory and obstructive airway diseases.

2,2'DIMORPHOLINYLDIETHYL ETHER
Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 2,035.0

Species Rat

Notes (oral LD₅₀) No information available.

ATE oral (mg/kg) 2,035.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,038.0

Species Rabbit

Notes (oral LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Carcinogenicity

IARC carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Inhalation May be harmful if inhaled. Spray/mists may cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin contact May be absorbed through the skin. May be harmful in contact with skin. May cause skin irritation.

Eye contact May cause eye irritation.

Diocetylindilaurat - PIC & SVHC**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,010.0

Species Rat

ATE oral (mg/kg) 2,010.0

BENZOYL CHLORIDE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 1,900.0

Species Rat

ATE oral (mg/kg) 1,900.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 790.0

Species Rat

ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	1.45
Species	Rat
ATE inhalation (vapours mg/l)	11.0
Carcinogenicity	
IARC carcinogenicity	IARC Group 2A Probably carcinogenic to humans.
Orthophosphoric acid 85%	
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	1,530.0
Species	Rat
ATE oral (mg/kg)	1,530.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,740.0
Species	Rabbit
ATE dermal (mg/kg)	2,740.0

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be hazardous to the environment.

Ecological information on ingredients.

diphenylmethane-diisocyanate, isomers and homologues

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

Ecological information on ingredients.

diphenylmethane-diisocyanate, isomers and homologues

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 100 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 10 mg/l, Daphnia magna
2,2'DIMORPHOLINYLDIETHYL ETHER	
Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 96 hours: 2150 mg/l,
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: >1000 mg/l, Bacteria

BENZOYL CHLORIDE

Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 96 hours: 8.7 mg/l, Fish
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.

Orthophosphoric acid 85%

Acute aquatic toxicity	
Acute toxicity - fish	No information available.
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.

12.2. Persistence and degradability

Persistence and degradability	The product is not readily biodegradable.
Stability (hydrolysis)	Reacts with water.
Biological oxygen demand	< 10 g O ₂ /g substance

Ecological information on ingredients.**diphenylmethane-diisocyanate, isomers and homologues**

Persistence and degradability The product is not readily biodegradable.

Stability (hydrolysis) Reacts with water.

Biological oxygen demand < 10 g O₂/g substance

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not available.

Ecological information on ingredients.**diphenylmethane-diisocyanate, isomers and homologues**

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product is non-volatile.

Ecological information on ingredients.**diphenylmethane-diisocyanate, isomers and homologues**

Mobility The product is non-volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.**diphenylmethane-diisocyanate, isomers and homologues**

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

14.3. Transport hazard class(es)**14.4. Packing group****14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

No

14.6. Special precautions for user**14.7. Transport in bulk 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**

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
 Health and Safety at Work etc. Act 1974 (as amended).
 Control of Substances Hazardous to Health Regulations 2002 (as amended).

Guidance Isocyanates: Health hazards and precautionary measures EH16.
 Introduction to Local Exhaust Ventilation HS(G)37.
 Approved Classification and Labelling Guide (Sixth edition) L131.

Authorisations (SI 2020 No. 1577 Annex XIV) No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) Entry number: 56 Methylendiphenyl diisocyanate (MDI) Entry number: 74 As from 24 August 2023 adequate training is required before industrial or professional use

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

Revision comments Revised classification. new scientific data Isocyanate training statement added to supplementary label information

Issued by Compliance

Revision date 20/10/2022

Hazard statements in full H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.

Store Between Store Between 5°C-25°C

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.