

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Date of issue: 31/12/2020 Revision date: 25/02/2022 Supersedes: 31/12/2020 Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	PART B - Curing Agent
Product code	:	A3695

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

1.2.1. Relevant identified uses

: Adhesive

Use of the substance/mixture **1.2.2. Uses advised against**

No additional information available

1.3. Details of the supplier of the safety data sheet

Polymarine Ltd. Chester House The Dingle Colwyn Bay, Conwy LL29 7SN United Kingdom Telephone: +44 (0)1492 583322 Fax: +44 (0)1492 531666 E-mail: info@polymarine.com

1.4. Emergency telephone number

Emergency number

: +44 (0)1827 69662 (Office hours only, English language only)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Flam. Liq. 2	H225	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
Carc. 2	H351	
STOT SE 3	H336	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

STOT SE 3	H335
STOT RE 2	H373
EUH204	
Full text of hazard classes, H- and EUH-sta	tements: see section 16
Adverse physicochemical, human health No additional information available	and environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) N Hazard pictograms (CLP)	No. 1272/2008 [CLP]
Signal word (CLP) Contains Hazard statements (CLP)	 GHS02 GHS07 GHS08 Danger Ethyl acetate, Diphenylmethane Diisocyanate, isomers and homologues H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H336 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H373 - May cause damage to organs (respiratory system) through prolonged or repeated arrossure (if inhaled)
Precautionary statements (CLP)	 exposure (if innaled). P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call doctor. P403+P235 - Store in a well-ventilated place. Keep cool.
EUH-statements Extra phrases	 EUH204 - Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. 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. As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

3.2. Mixtures

Name	Product identifier	%	Classification according to
		~	Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetate	CAS-No.: 141-78-6 EC No.: 205-500-4 EC index No.: 607-022-00-5 REACH-no: 01-2119475103- 46-XXXX	60 - 100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Diphenylmethane Diisocyanate, isomers and homologues	CAS-No.: 9016-87-9 EC index No.: 615-005-00-9 REACH-no: 01-2119457024- 46-XXXX	10 - 30	Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l) 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	CAS-No.: 101-68-8 EC No.: 202-966-0 EC index No.: 615-005-00-9 REACH-no: 01-2119457014- 47-XXXX	5 - 10	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) 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
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	CAS-No.: 5873-54-1 EC No.: 227-534-9 EC index No.: 615-005-00-9 REACH-no: 01-2119480143- 45-XXXX	< 1	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	CAS-No.: 2536-05-2 EC No.: 219-799-4 EC index No.: 615-005-00-9 REACH-no: 01-2119927323- 43-XXXX	< 1	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Diphenylmethane Diisocyanate, isomers and homologues	CAS-No.: 9016-87-9 EC index No.: 615-005-00-9 REACH-no: 01-2119457024- 46-XXXX	(0.1 ≤C < 100) Resp. Sens. 1, H334 (5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) Eye Irrit. 2, H319 (5 ≤C < 100) STOT SE 3, H335	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Diphenylmethane-4,4'-di-isocyanate	CAS-No.: 101-68-8 EC No.: 202-966-0 EC index No.: 615-005-00-9 REACH-no: 01-2119457014- 47-XXXX	(0.1 ≤C ≤ 100) Resp. Sens. 1, H334 (5 ≤C ≤ 100) STOT SE 3, H335 (5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) Eye Irrit. 2, H319	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	CAS-No.: 5873-54-1 EC No.: 227-534-9 EC index No.: 615-005-00-9 REACH-no: 01-2119480143- 45-XXXX	(0.1 ≤C ≤ 100) Resp. Sens. 1, H334 (5 ≤C ≤ 100) STOT SE 3, H335 (5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) Eye Irrit. 2, H319	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	CAS-No.: 2536-05-2 EC No.: 219-799-4 EC index No.: 615-005-00-9 REACH-no: 01-2119927323- 43-XXXX	(0.1 ≤C ≤ 100) Resp. Sens. 1, H334 (5 ≤C ≤ 100) Eye Irrit. 2, H319 (5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) STOT SE 3, H335	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain medical attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. Nausea. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Even minimal concentrations of isocyanate can lead to a reaction in sensitised people. Symptoms that may occur include the following: irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties. The symptoms may only arise several hours after exposure.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Animal research has shown that skin contact with substances known to have a sensitising effect on airways, such as diisocyanate, can cause airways to be sensitised.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Ingestion may cause discomfort. May cause stomach pain or vomiting if ingested.
Chronic symptoms	: Suspected of causing cancer. May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).

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

In instances of existing sensitisation towards isocyanates, a doctor should be consulted with regards to work-related contact with other sensitising substances, or substances which irritate the airway. Treatment for exposure should be geared towards monitoring symptoms and the patient's clinical condition. It must be ensured that the patient has sufficient ventilation and oxygen supply. Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing symptoms, including lung oedema, may occur. People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48 hours.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide. Dry chemical. For large fire: Water spray. : Do not use water jet.		
5.2. Special hazards arising from the substance or mixture			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. May form flammable/explosive vapour-air mixture. May form explosive peroxides. Carbon monoxide. Carbon dioxide. Nitrogen oxides. 		
5.3. Advice for firefighters			
Firefighting instructions	: Move containers from fire area if you can do it without risk. Cool closed containers exposed to fire with water spray. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.		
Protection during firefighting	water entering the environment. : As in any fire, wear self-contained breathing apparatus and full protective gear.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protect	ive equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Remove ignition sources. Ventilate area. Do not breathe vapours. Avoid contact with eyes, skin and clothing. Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. See Section 8.		
Emergency procedures	 Remove ignition sources. Use only non-sparking tools. Ventilate area. Do not breathe vapours. Avoid contact with eves, skin and clothing. 		

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up	
For containment : Methods for cleaning up :	Stop leak, if possible without risk. Dam up the liquid spill. Liquid: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Cured product: Pick up mechanically. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	 Handle empty containers with care because residual vapours are flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof equipment. Do not handle until all safety precautions have been read and understood. As from 24 August 2023 adequate training is required before industrial or professional use (Regulation (EC) No 2020/1149). Avoid contact with skin, eyes and clothing. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hygiene measures :	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, including any	y incompatibilities
Storage conditions :	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Store tightly closed in a dry, cool and well-ventilated place.
Incompatible materials :	Strong oxidising agents. Strong acids. Strong alkalis.
Storage temperature :	5 – 25 °C
7.3. Specific end use(s)	

Adhesive.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Ethyl acetate (141-78-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethyl acetate	
IOELV TWA (mg/m³)	734 mg/m³	
IOELV TWA (ppm)	200 ppm	
IOELV STEL (mg/m ³)	1468 mg/m ³	
IOELV STEL (ppm)	400 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
Ireland - Occupational Exposure Limits		
Local name	Ethyl acetate	
OEL (8 hours ref) (mg/m³)	734 mg/m ³	
OEL TWA [2]	200 ppm	
OEL (15 min ref) (mg/m3)	1468 mg/m ³	
OEL STEL [ppm]	400 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	Ethyl acetate	
WEL TWA (mg/m³)	734 mg/m ³	
WEL TWA (ppm)	200 ppm	
WEL STEL (mg/m³)	1468 mg/m ³	
WEL STEL (ppm)	400 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Diphenylmethane Diisocyanate, isomers and	homologues (9016-87-9)	
Ireland - Occupational Exposure Limits		
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)	
OEL (8 hours ref) (mg/m³)	0.02 mg/m ³	
OEL (15 min ref) (mg/m3)	0.07 mg/m³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Isocyanates	
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Isocyanates, all (as -NCO)	
WEL TWA (mg/m³)	0.02 mg/m³	
WEL STEL (mg/m ³)	0.07 mg/m³	
Remark (WEL)	Sen	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)	
BMGV	1 $\mu mol/mol$ creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)	
Ireland - Occupational Exposure Limits		
Local name	4,4'-Methylene-diphenyl diisocyanate (as —NCO) [MDI]	
OEL TWA [2]	0.005 ppm	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Isocyanates	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Isocyanates, all (as -NCO)	
WEL TWA (mg/m³)	0.02 mg/m³	
WEL STEL (mg/m³)	0.07 mg/m³	
Remark (WEL)	Sen	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)	
BMGV	1 $\mu mol/mol$ creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
Ireland - Occupational Exposure Limits		
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)	
OEL (8 hours ref) (mg/m³)	0.02 mg/m ³	
OEL (15 min ref) (mg/m3)	0.07 mg/m³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values	-	
Local name	Isocyanates	
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Isocyanates	
WEL TWA (mg/m³)	0.02 mg/m³ all (as –NCO) Except methyl isocyanate	
WEL STEL (mg/m³)	0.07 mg/m³ all (as –NCO) Except methyl isocyanate	
Remark (WEL)	Sen (Capable of causing occupational asthma)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
BMGV	1 $\mu mol/mol$ creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
2,2'-methylenediphenyl diisocyanate; dipheny	Imethane-2,2'-diisocyanate (2536-05-2)	
Ireland - Occupational Exposure Limits		
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)	
OEL (8 hours ref) (mg/m³)	0.02 mg/m³	
OEL (15 min ref) (mg/m3)	0.07 mg/m³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Isocyanates	
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Isocyanates	
WEL TWA (mg/m³)	0.02 mg/m ³ all (as –NCO) Except methyl isocyanate	
WEL STEL (mg/m ³)	0.07 mg/m ³ all (as –NCO) Except methyl isocyanate	
Remark (WEL)	Sen (Capable of causing occupational asthma)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)	
BMGV	1 $\mu mol/mol$ creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Ethyl acetate (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1468 mg/m ³
Acute - local effects, inhalation	1468 mg/m ³

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Ethyl acetate (141-78-6)		
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	734 mg/m ³	
Long-term - local effects, inhalation	734 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	734 mg/m ³	
Acute - local effects, inhalation	734 mg/m ³	
Long-term - systemic effects,oral	4.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	367 mg/m ³	
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day	
Long-term - local effects, inhalation	367 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	0.24 mg/l	
PNEC aqua (marine water)	0.024 mg/l	
PNEC aqua (intermittent, freshwater)	1.65 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1.15 mg/kg dwt	
PNEC sediment (marine water)	0.115 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.148 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	0.2 kg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	650 mg/l	
Diphenylmethane Diisocyanate, isomers and	homologues (9016-87-9)	
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	0.1 mg/m ³	
Long-term - local effects, inhalation	0.05 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	0.05 mg/m³	
Long-term - local effects, inhalation	0.025 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	1 mg/l	
PNEC aqua (marine water)	1 mg/l	
PNEC aqua (intermittent, freshwater)	10 mg/l	
PNEC (Soil)		
PNEC soil	1 mg/kg dwt	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	0.1 mg/m³	
Long-term - local effects, inhalation	0.05 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	0.05 mg/m³	
Long-term - local effects, inhalation	0.025 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	1 mg/l	
PNEC aqua (marine water)	0.1 mg/l	
PNEC aqua (intermittent, freshwater)	10 mg/l	
PNEC (Soil)		
PNEC soil	1 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	1 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide good ventilation in process area to prevent formation of vapour. Ensure exposure is below occupational exposure limits (where available). Local exhaust ventilation (LEV) may be required to control inhalation exposure. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Safety goggles. Standard EN 166 - Personal eye-protection.

8.2.2.2. Skin protection

Skin and body protection:

Long-sleeved protective clothing

Hand protection:

Wear protective gloves if skin contact is possible. Standard EN 374 - Protective gloves against chemicals. Recommended: Nitrile rubber gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Short term exposure/At low concentrations: Respiratory filter device. Filter type. A1. EN 14387. Long term exposure/In high concentrations : Approved supplied air respirator

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required for normal conditions of use.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Assure that emissions are compliant with all applicable air pollution control regulations. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid
: Colourless.
: Liquid.
: Not available
: 77 °C
: Highly flammable liquid and vapour.
: May form flammable/explosive vapour-air mixture.
: Not oxidising.
: 1.1 – 11 vol %
: Not available
: Not available
: -1 °C
: 460 °C
: Not available
: Not available
: > 20.5 mm²/s
In water, material is partially soluble.
: Not available
: 0.94 (20°C), (Water = 1)
: Not available
: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits

: 1.1 – 11 vol %

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

May form flammable/explosive vapour-air mixture.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):Additional information:	Not classified Not classified Not classified. Based on available data, the classification criteria are not met	
Ethyl acetate (141-78-6)		
LD50 dermal, rabbit	> 20000 mg/kg bodyweight	
LC50 inhalation, rat (ppm)	> 6000 ppm - 6 Hours	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
LD50 oral, rat	> 2000 mg/kg bodyweight	
LD50 dermal, rabbit	9400 mg/kg bodyweight	
LC50 inhalation, rat (mg/l)	0.49 mg/l - 4 Hours	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
LC50 inhalation, rat (mg/l)	431 mg/m ³ - 4 Hours	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
LC50 inhalation, rat (mg/l)	431 mg/m ³ - 4 Hours	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)		
LD50 oral, rat	> 5000 mg/kg bodyweight	
LC50 inhalation, rat (mg/l)	431 mg/m ³ - 4 Hours	
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction	
Germ cell mutagenicity:Additional information:Carcinogenicity:	Not classified Based on available data, the classification criteria are not met Suspected of causing cancer.	
Diphenylmethane Diisocyanate, isomers and	homologues (9016-87-9)	
IARC group	3 - Not classifiable	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
IARC group	3 - Not classifiable	
Reproductive toxicity : Additional information : STOT-single exposure :	Not classified Based on available data, the classification criteria are not met May cause drowsiness or dizziness. May cause respiratory irritation.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Ethyl acetate (141-78-6)		
STOT-single exposure	May cause drowsiness or dizziness.	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
STOT-single exposure	May cause respiratory irritation.	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
STOT-single exposure	May cause respiratory irritation.	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
STOT-single exposure	May cause respiratory irritation.	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard : Additional information :	Not classified Based on available data, the classification criteria are not met	
PART B - Curing Agent		
Viscosity, kinematic	> 20.5 mm²/s	
11.2. Information on other hazards		

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: May cause drowsiness or dizziness,Nausea,May cause respiratory irritation,May cause allergy or asthma symptoms or breathing difficulties if inhaled,Even minimal concentrations of isocyanate can lead to a reaction in sensitised people. Symptoms that may occur include the following: irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties. The symptoms may only arise several hours after exposure,Causes serious eye irritation,May cause an allergic skin reaction,Animal research has shown that skin contact with substances known to have a sensitising effect on airways, such as diisocyanate, can cause airways to be sensitised,Causes skin irritation,May cause stomach pain or vomiting if ingested,Ingestion may cause discomfort,Suspected of causing cancer,May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)		
Ethyl acetate (141-78-6)		
LC50 fish	230 mg/l - 96 Hours (Pimephales promelas)(US EPA E03-05)	
NOEC chronic fish	> 100 mg/l - 72 Hours (Desmodesmus subspicatus)	
NOEC chronic crustacea	2.4 mg/I - 21 days (Daphnia magna)(OECD 211 method)	
NOEC, algae	> 100 mg/l (72 Hours, Desmodesmus subspicatus, Growth rate (OECD 201 method))	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
LC50 fish	> 1000 mg/l - 96 Hours (Danio rerio)	
EC50 Daphnia	> 500 mg/l - 48 Hours (Daphnia magna)	
ErC50 algae	≈ 1640 mg/l - 3 days (Desmodesmus subspicatus)	
NOEC chronic crustacea	10 mg/l - 21 days (Daphnia magna)	

12.2. Persistence and degradability

PART B - Curing Agent		
Persistence and degradability	No information available.	
Ethyl acetate (141-78-6)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	≈ 62 % - 10 days (O2 consumption)	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
Persistence and degradability	Not biodegradable.	

12.3. Bioaccumulative potential

PART B - Curing Agent		
Bioaccumulative potential	No information available.	
Ethyl acetate (141-78-6)		
BCF - Fish [1]	30 Leuciscus idus melanotus	
Log Pow	0.68 (25 °С, рН 7)	
Bioaccumulative potential	Low bioaccumulation potential.	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
Bioaccumulative potential	Not expected to bioaccumulate.	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)		
BCF - Fish [1]	200 Cyprinus carpio (OECD 305 E method)	
Log Pow	4.51 (22 °C, pH ≈ 7), (OECD 117 method)	
Bioaccumulative potential	Low bioaccumulation potential.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)		
BCF - Fish [1]	200	
12.4. Mobility in soil		
PART B - Curing Agent		
Ecology - soil	No information available.	
Ethyl acetate (141-78-6)		
Ecology - soil	Miscible with water.	
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
Ecology - soil	Not volatile.	
Diphenylmethane-4,4'-di-isocyanate (101-68-8)	
Ecology - soil	Slightly soluble in: Water.	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.22 (QSAR)	
12.5. Results of PBT and vPvB assessment		
PART B - Curing Agent		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. The correct waste code must be determined by the producer of the waste, based on how the waste has been produced.
Additional information Ecology - waste materials	 Handle empty containers with care because residual vapours are flammable. Avoid release to the environment.

SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG)	: UN 1133 : UN 1133
UN-No. (IATA)	: UN 1133

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

14.2. UN proper shipping name	
Proper Shipping Name	: ADHESIVES
Proper Shipping Name (IMDG)	: ADHESIVES
Proper Shipping Name (IATA)	: Adhesives
Transport document description (ADR)	: UN 1133 ADHESIVES, 3, II, (D/E)
Transport document description (IMDG)	: UN 1133 ADHESIVES, 3, II
Transport document description (IATA)	: UN 1133 Adhesives, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Hazard labels



ΙΑΤΑ

IMDG

Transport hazard class(es) (IATA) Danger labels (IATA)

Transport hazard class(es) (IMDG)

Danger labels (IMDG)



14.4. Packing group		
Packing group Packing group (IMDG) Packing group (IATA)	: II : II : II	
14.5. Environmental hazards		
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available	
14.6. Special precautions for user		
Overland transport Tunnel restriction code (ADR)	: D/E	
Transport by sea No data available		
Air transport No data available		
14.7. Maritime transport in bulk accord	ing to IMO instruments	
Not applicable		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3.	Diphenylmethane Diisocyanate, isomers and homologues ; Ethyl acetate ; PART B - Curing Agent	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	
3(a)	PART B - Curing Agent ; Ethyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	PART B - Curing Agent ; Ethyl acetate ; Diphenylmethane Diisocyanate, isomers and homologues	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
40.	Ethyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	
56.	Diphenylmethane Diisocyanate, isomers and homologues ; Diphenylmethane-4,4'-di- isocyanate ; o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate ; 2,2'- methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	Methylenediphenyl diisocyanate (MDI)	
56(a)	Diphenylmethane-4,4'-di- isocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate	
56(b)	o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,4'-Methylenediphenyl diisocyanate	
56(c)	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,2'-Methylenediphenyl diisocyanate	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
74.	Diphenylmethane Diisocyanate, isomers and homologues ; Diphenylmethane-4,4'-di- isocyanate ; o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate ; 2,2'- methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1	Identification of the substance/mixture and of the company/undertaking	Modified	
2	Hazards identification	Modified	
3	Composition/information on ingredients	Modified	
7	Handling and storage	Modified	
8	Exposure controls/personal protection	Modified	
9	Physical and chemical properties	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:		
ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)		
BCF (Bioconcentration factor)		
CAS (Chemical Abstracts Service) number		
CLP (Classification, Labeling and Packaging)		
DNEL (Derived No Effect Level)		
EC (European Community)		
EC50 (Effective Concentration 50%)		
EN (European Norm)		
IARC (International Agency for Research on Cancer)		
IATA (International Air Transport Association)		
IBC (Intermediate Bulk Container)		
IMDG (International Maritime Dangerous Goods Code)		
Koc (Soil adsorption coefficient)		
LC50 (Lethal Concentration 50%)		
LD50 (Lethal Dose 50%)		
OECD (Organisation for Economic Co-operation and Development)		
OEL (Occupational exposure limit)		
NOAEL (No Observed Adverse Effect Level)		
NOEC (No Observed Effect Concentration)		
PBT (Persistent, Bioaccumulative and Toxic)		
PNEC (Predicted No Effect Concentration)		
QSAR (Quantitative Structure-Activity Relationship)		
REACH (Registration, Evaluation and Authorisation of CHemicals)		
STEL (Short Term Exposure Limit)		
TWA (Time Weighted Average)		
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)		
UVCB (Unknown or Variable composition, Complex reaction products or Biological materials)		
vPvB (very Persistent and very Bioaccumulative)		
WAF (Water Accommodated Fraction)		

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: Classification procedure according to Regulation (EC) No. 1272/2008 [CLP]: Physical hazards: On basis of test data. Health hazards: Calculation method. Environmental hazards: Calculation method.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
EUH204	Contains isocyanates. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

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