

Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date: 11-Jul-2024

Version 1

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

	PACE-001-EU TOP-TIER ADHESIVE Part A ISOCYANATE
Other means of identification	
Pure substance/mixture	Mixture
Contains Methylenediphenyl diisocyana	te; 4,4- methylenediphenyl diisocyanate (MDI)
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Recommended Use	Aromatic isocyanate for adhesives for industrial or professional use
Uses Advised Against	No information available
1.3. Details of the supplier of the safe	ty data sheet
<u>Manufacturer</u> Paceline, INC. 10737 Independence Pointe Parkway Matthews, NC 28105 www.paceline.com	
For further information, please contact	
(800-443-1827 (8:00 AM - 5:00 PM Eastern Time) info@paceline.com
1.4. Emergency telephone number	
5 7 1 ()	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)
Emergency Telephone Number - §45	- (EC)1272/2008
Europe	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Regulation (EC) NO 1212/2008	
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	

Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 4 - (H413)

2.2. Label elements

Contains Methylenediphenyl diisocyanate; 4,4- methylenediphenyl diisocyanate (MDI)



Signal word Danger

Hazard statements

- 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
- H413 May cause long lasting harmful effects to aquatic life

Precautionary Statements - EU (§28, 1272/2008)

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P285 In case of inadequate ventilation wear respiratory protection
- P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for
- breathing
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P273 Avoid release to the environment

Unknown acute toxicity

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

Endocrine Disruptor Information T

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Methylenediphenyl diisocyanate 26447-40-5	25-35	No data available	(615-005-00-9) 247-714-0	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)	C>=5%	-	-
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	15-25	No data available	(615-005-00-9) 202-966-0	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)	C>=5%	-	-

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapour - mg/L	hour - gas - ppm
			mg/L		
Methylenediphenyl	10000	10000	Inhalation LC50 Rat	490	Inhalation LC50 Rat
diisocyanate			490 mg/m³ 4 h		490 mg/m ³ 4 h
26447-40-5			(aerosol, Source:		(aerosol, Source:
			OECD_SIDS)		OECD_SIDS)
4,4- methylenediphenyl	31600	No data available	Inhalation LC50 Rat	369	Inhalation LC50 Rat
diisocyanate (MDI)			369 mg/m³ 4 h		369 mg/m ³ 4 h
101-68-8			(Source: NZ_CCID)		(Source: NZ_CCID)
			0.369		

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.
4.3. Indication of any immediate mee	dical attention and special treatment needed
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from the	e substance or mixture
Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by inhalation. May cause sensitisation by skin contact.
5.3. Advice for firefighters	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes. Avoid breathing vapours or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
Keep out of the reach of children.

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

Specific Use(s)

Aromatic isocyanate for adhesives for industrial or professional use.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Methylenediphenyl diisocyanate 26447-40-5	-	STEL 0.01 ppm STEL 0.1 mg/m ³ Sa+ Sh+	-	STEL: 0.07 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	-	TWA: 0.005 ppm TWA: 0.05 mg/m ³ STEL 0.01 ppm STEL 0.1 mg/m ³ Sa+ Sh+	TWA: 0.005 ppm TWA: 0.052 mg/m ³	-	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	S+ TWA: 0.005 ppm STEL: 0.01 ppm	STEL: 0.035 mg/m ³
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	-	TWA: 0.05 mg/m ³ Ceiling: 0.1 mg/m ³ S+	TWA: 0.005 ppm TWA: 0.05 mg/m ³	S+ TWA: 0.005 ppm TWA: 0.05 mg/m ³ STEL: 0.01 ppm STEL: 0.1 mg/m ³	STEL: 0.035 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	TWA: 0.02 ppm TWA: 0.2 mg/m ³ STEL: 0.02 ppm STEL: 0.2 mg/m ³	-
4,4- methylenediphenyl diisocyanate (MDI)	TWA: 0.01 ppm TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³ Sa+	TWA: 0.05 mg/m ³ Peak: 0.05 mg/m ³	-	TWA: 0.05 mg/m ³ sz+

101-68-8	STE	L: 0.02 ppm	Sh+	*			STEL: 0.05 mg/m ³
101-08-8	STEL: 0.2 mg/m ³		H*	respiratory and skin			STEL. 0.05 mg/m
	OIL	AR+	11	sensitizer inhalable			
		<i>7</i> u (*		fraction			
Chemical name		Ireland	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Methylenediphenyl	TWA	: 0.02 mg/m ³	-	-		-	TWA: 0.005 ppm
diisocyanate		.: 0.07 mg/m ³					TWA: 0.05 mg/m ³
26447-40-5		Sens+					Ceiling: 0.01 ppm
							Ceiling: 0.1 mg/m ³
							J+
4,4- methylenediphenyl		.: 0.005 ppm	-	TWA: 0.005 ppm		-	TWA: 0.005 ppm
diisocyanate (MDI)	STEI	_: 0.015 ppm		TWA: 0.051 mg/m ³			TWA: 0.05 mg/m ³
101-68-8		Sens+					Ceiling: 0.01 ppm
							Ceiling: 0.1 mg/m ³
							J+
Chemical name	Lu	xembourg	Malta	Netherlands		orway	Poland
Methylenediphenyl	-		-	- TWA: 0.005			STEL: 0.09 mg/m ³
diisocyanate							TWA: 0.03 mg/m ³
26447-40-5					STEL: 0.01 ppm		STEL: 0.09 mg/m ³
4,4- methylenediphenyl diisocyanate (MDI)		-	-	-	TWA: 0.005 ppm TWA: 0.05 mg/m ³		TWA: 0.03 mg/m ³
101-68-8						A+	1 WA. 0.03 mg/m
101-00-0						0.01 ppm	
Chemical name		Portugal	Romania	Slovakia		venia	Spain
4,4- methylenediphenyl		: 0.005 ppm	STEL: 0.15 mg/m ³	TWA: 0.002 mg/m ³		.05 mg/m ³	TWA: 0.005 ppm
diisocyanate (MDI)		. 0.000 ppm	0122. 0.10 mg/m	TWA: 0.03 mg/m ³).005 ppm	TWA: 0.052 mg/m ³
101-68-8 ´				S+		0.05 mg/m^{3}	Sen+
					STEL: (0.005 ppm	
					<u>K*</u>		
Chemical name		S	weden	Switzerland		United Kingdom	
Methylenediphenyl diisocyanate			:	S+			A: 0.02 mg/m ³
26447-40-5		NGV:	0.002 ppm	TWA: 0.02 mg/n		STE	L: 0.07 mg/m ³
			S+	STEL: 0.02 mg/r	n°		Sen+
4,4- methylenediphenyl			0.002 ppm	S+			A: 0.02 mg/m ³
diisocyanate (MDI)			0.03 mg/m^3	TWA: 0.02 mg/m ³		STE	L: 0.07 mg/m ³
101-68-8			(GV: 0.005 ppm	STEL: 0.02 mg/m ³			Sen+
		Bindande K	GV: 0.05 mg/m ³ S+	H*			
			ਹਾ				

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Methylenediphenyl	-	10 µg/g Creatinine	-	-	-
diisocyanate		(urine - 4,4'-			
26447-40-5		Diaminodiphenylmet			
		hane after end of			
		work day, at the end			
		of a work week/end			
		of the shift)			
		(-)			
4,4- methylenediphenyl	-	10 µg/g Creatinine	-	-	-
diisocyanate (MDI)		(urine - 4,4'-			
101-68-8		Diaminodiphenylmet			
		hane after end of			
		work day, at the end			
		of a work week/end			
		of the shift)			

		(-)				
Chemical name	Denmark	Finland	Fra	nce	Germany DF	G Germany TRGS
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	-	-		-	10 μg/L - BLW of exposure or of shift) urin	end
Chemical name	Hungary	Irelan	d	Italy	/ MDLPS	Italy AIDII
Methylenediphenyl diisocyanate 26447-40-5	-	1 μmol/mol C (urine - urinary post tas	/ Diamine	-		-
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	0.01 mg/L (urine - ME (after hydrolysis) end shift) 0.05 µmol/L (urine - M (after hydrolysis) end shift)	of (urine - urinary post tas DA	/ Diamine	-		-
Chemical name	Slovenia	Spair	1	Sw	itzerland	United Kingdom
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	-	-		Diaminodi enc 5 nmol/m (uri Diaminodi	eatinine (urine - 4,4'- phenylmethane d of shift) mol creatinine ne - 4,4'- phenylmethane d of shift)	

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls	No information available.	
Personal Protective Equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.	
Environmental exposure controls	No information available.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties			
Physical state	Liquid		
Appearance	Clear to pale yellow liquid		
Colour	Clear to pale yellow		
Odour	Faint aromatic odor.		
Odour Threshold	No information available		
Property	Values	<u>Remarks</u> • Method	
Melting point / freezing point	0 °C		
Initial boiling point and boiling	208 °C		
range			
Flammability (Solid, Gas)	No data available		
Flammability Limit in Air			
Upper flammability or explosive	No data available		
limits			
Lower flammability or explosive	No data available		
limits			
Flash point	>93.34	Pensky-Martens Closed Cup (PMCC)	
Autoignition temperature	No data available		
Decomposition temperature			
рН	No data available		
pH (as aqueous solution)	No data available		
Kinematic viscosity	No data available		
Dynamic Viscosity	No data available		
Water solubility	Insoluble in water		
Solubility(ies)	No data available		
Partition Coefficient	No data available		
Vapour Pressure	< 0.001 mmHg at 25°C		
Relative Density	1.12 g/cm3 at 25°C (77° F)		
Bulk Density	No data available		
Liquid Density	No data available		
Vapour Density	No data available		
Particle characteristics			
Particle Size	No information available		
Particle Size Distribution	No information available		

9.1. Information on basic physical and chemical properties

9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion Data	

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.	
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.	
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.	
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)10,486.70 mg/kgATEmix (dermal)5,714.30 mg/kg		

Unknown acute toxicity Component Information

component mormation			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylenediphenyl diisocyanate	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m ³ (Rat)4 h
4,4- methylenediphenyl diisocyanate (MDI)	= 31600 mg/kg (Rat)	-	= 369 mg/m ³ (Rat)4 h

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

Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation. May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name		European Union	
Methylenediphenyl diisocyanate		Carc. 2	
4,4- methylenediphenyl diisocyanate (MDI)		Carc. 2	
Reproductive toxicity	Contains a known or suspe for ingredients.	ected reproductive toxin. Classification based on data available	
STOT - single exposure	May cause respiratory irritation.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not classified.		
11.2. Information on other hazards			
11.2.1. Endocrine disrupting properties			
Endocrine disrupting properties	This product does not cont	tain any known or suspected endocrine disruptors.	
11.2.2. Other information			
Other Adverse Effects	No information available.		
SECTION 12: Ecological information			
<u>12.1. Toxicity</u>			

 Ecotoxicity
 May cause long lasting harmful effects to aquatic life.

 Unknown aquatic toxicity
 Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence/Degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Methylenediphenyl diisocyanate	4.5
4,4- methylenediphenyl diisocyanate (MDI)	4.51

12.4. Mobility in soil

Mobility in Soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
4,4- methylenediphenyl diisocyanate (MDI)	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IMDG 14.2 Proper Shipping Name	Not regulated
<u>RID</u> 14.2 Proper Shipping Name	Not regulated
ADR_ 14.2 Proper Shipping Name	Not regulated
IATA 14.2 Proper Shipping Name	Not regulated

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Methylenediphenyl diisocyanate	RG 62
26447-40-5	
4,4- methylenediphenyl diisocyanate (MDI)	RG 62
101-68-8	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Methylenediphenyl diisocyanate - 26447-40-5	56.	-
	75.	
4,4- methylenediphenyl diisocyanate (MDI) - 101-	56[a].	-
68-8	75.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELIN CS	PICCS	ENCS	IECSC	AIIC	KECL
Methylenediphenyl diisocyanate 26447-40-5(25-35)	Х	X	Х	х	X	X	Х	Х
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8(15-25)	Х	X	X	X	X	X	X	Х

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

- **ENCS** Japan Existing and New Chemical Substances
- **IECSC** China Inventory of Existing Chemical Substances
- **KECL** Korean Existing and Evaluated Chemical Substances
- **PICCS** Philippines Inventory of Chemicals and Chemical Substances
- AICS Australian Inventory of Chemical Substances
- **NZIOC** New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

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

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	On basis of test data
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	On basis of test data
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC) European Chemicals Agency (ECHA) (ECHA API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization **Revision Date:** 11-Jul-2024

Revision Note:

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

New

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End of Safety Data Sheet