

SAFETY DATA SHEET

Version #: 06

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

1.1. Product identifier

Trade name or designation of the mixture DEVCON® Flexane® Primer FL-20

Registration number -

Synonyms None.

SKU# 15985

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

Identified uses Not available.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82

Contact Person Customer Service

Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Austria National Poisons Information Center +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Belgium National Poisons Control Center 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Bulgaria National Toxicological Information Center +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Croatia Poisons Information Center +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Cyprus Poison Center 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Czech Republic National Poisons Information Center +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons Control Center +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Center 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

Finland National Poison Information Center (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Greece Poison Information Centre	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Center	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Center	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidēliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Center	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
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Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Respiratory sensitization	Category 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended**UFI:**

Austria: 5R40-P0SC-D00Y-6J57
Belgium: 5R40-P0SC-D00Y-6J57
Bulgaria: 5R40-P0SC-D00Y-6J57
Croatia: 5R40-P0SC-D00Y-6J57
Cyprus: 5R40-P0SC-D00Y-6J57
Czech Republic: 5R40-P0SC-D00Y-6J57
Denmark: 5R40-P0SC-D00Y-6J57
Estonia: 5R40-P0SC-D00Y-6J57
EU: 5R40-P0SC-D00Y-6J57
Finland: 5R40-P0SC-D00Y-6J57
France: 5R40-P0SC-D00Y-6J57
Germany: 5R40-P0SC-D00Y-6J57
Greece: 5R40-P0SC-D00Y-6J57
Hungary: 5R40-P0SC-D00Y-6J57
Iceland: 5R40-P0SC-D00Y-6J57
Ireland: 5R40-P0SC-D00Y-6J57
Italy: 5R40-P0SC-D00Y-6J57
Latvia: 5R40-P0SC-D00Y-6J57
Lithuania: 5R40-P0SC-D00Y-6J57
Luxembourg: 5R40-P0SC-D00Y-6J57
Malta: 5R40-P0SC-D00Y-6J57
Netherlands: 5R40-P0SC-D00Y-6J57
Norway: 5R40-P0SC-D00Y-6J57
Poland: 5R40-P0SC-D00Y-6J57
Portugal: 5R40-P0SC-D00Y-6J57
Romania: 5R40-P0SC-D00Y-6J57
Slovakia: 5R40-P0SC-D00Y-6J57
Slovenia: 5R40-P0SC-D00Y-6J57
Spain: 5R40-P0SC-D00Y-6J57
Sweden: 5R40-P0SC-D00Y-6J57

Contains:

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate; 4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate

Hazard pictograms**Signal word**

Danger

Hazard statements

H225 Highly flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.

Precautionary statements**Prevention**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P235 Keep cool.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist/vapors.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 Wear respiratory protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
ethyl acetate	90 - 100	141-78-6 205-500-4	-	607-022-00-5	#
Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336					
Supplemental Hazard Statement(s): EUH066					
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate	0,5 - 1,5	101-68-8 202-966-0	-	615-005-00-9	
Classification: Acute Tox. 4;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					
Specific Concentration Limits: Skin Irrit. 2;H315: C ≥ 5 %, Eye Irrit. 2;H319: C ≥ 5 %, Resp. Sens. 1;H334: C ≥ 0.1 %, STOT SE 3;H335: C ≥ 5 %					
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate	< 0,2	5873-54-1 227-534-9	-	615-005-00-9	
Classification: Acute Tox. 4;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					
Specific Concentration Limits: Skin Irrit. 2;H315: C ≥ 5 %, Eye Irrit. 2;H319: C ≥ 5 %, Resp. Sens. 1;H334: C ≥ 0.1 %, STOT SE 3;H335: C ≥ 5 %					
Other components below reportable levels	1 - 5				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Union workplace exposure limit(s).
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
4.1. Description of first aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Highly flammable liquid and vapor.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	Ceiling	0,1 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0,1 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	Ceiling	0,01 ppm

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0,01 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	MAK	0,05 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	MAK	0,05 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	MAK	0,005 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	MAK	0,005 ppm
ethyl acetate (CAS 141-78-6)	MAK	734 mg/m3
	STEL	200 ppm
		1468 mg/m3
		400 ppm

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value
		150 ppm
Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended		
Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,1 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	STEL	0,01 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,05 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,005 ppm
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,01 ppm
	TWA	0,005 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1100 mg/m3
		300 ppm
	TWA	500 mg/m3 150 ppm

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,035 mg/m3
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,035 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	1470 mg/m3
		400 ppm
	TWA	730 mg/m3 200 ppm

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	VLE	1468 mg/m3
		400 ppm
	VME	734 mg/m3 200 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	VLE	0,2 mg/m3
	Regulatory status: Indicative limit (VL)	0,02 ppm
	Regulatory status: Indicative limit (VL)	VME 0,1 mg/m3
	Regulatory status: Indicative limit (VL)	0,01 ppm
Regulatory status: Indicative limit (VL)		

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
ethyl acetate (CAS 141-78-6)	VLE	1468 mg/m3
Regulatory status: Regulatory binding (VRC)		400 ppm
Regulatory status: Regulatory binding (VRC)	VME	734 mg/m3
Regulatory status: Regulatory binding (VRC)		200 ppm
Regulatory status: Regulatory binding (VRC)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Components	Type	Value	Form
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,05 mg/m3	Inhalable fraction.
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	TWA	0,05 mg/m3	Inhalable fraction.
ethyl acetate (CAS 141-78-6)	TWA	750 mg/m3 200 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	AGW	0,05 mg/m3	Vapor and aerosol.
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	AGW	0,05 mg/m3	Inhalable fraction.

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,1 mg/m3
		0,01 ppm
	TWA	0,05 mg/m3
		0,005 ppm
ethyl acetate (CAS 141-78-6)	TWA	540 mg/m3
		150 ppm

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	STEL	0,07 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,07 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,02 mg/m3

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,005 ppm
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,07 mg/m3
ethyl acetate (CAS 141-78-6)	TWA	0,02 mg/m3
	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,005 ppm
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	200 mg/m3
		54 ppm

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0,1 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	Ceiling	0,01 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,05 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,005 ppm
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	Ceiling	0,01 ppm
ethyl acetate (CAS 141-78-6)	TWA	0,005 ppm
	Ceiling	1100 mg/m ³
		300 ppm
	TWA	500 mg/m ³

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Type	Value
		150 ppm

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m ³
		400 ppm
	TWA	734 mg/m ³
		200 ppm

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m ³
		400 ppm
	TWA	734 mg/m ³
		200 ppm

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m ³
	TWA	734 mg/m ³

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,01 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	STEL	0,01 ppm

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TLV	0,05 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TLV	0,005 ppm
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,01 ppm
ethyl acetate (CAS 141-78-6)	TLV	0,005 ppm
	STEL	1468 mg/m ³
		400 ppm
	TLV	734 mg/m ³
		200 ppm

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	STEL	0,09 mg/m ³

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,09 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,03 mg/m ³
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,03 mg/m ³
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m ³
	TWA	734 mg/m ³

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m ³
	TWA	400 ppm 734 mg/m ³ 200 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,005 ppm
ethyl acetate (CAS 141-78-6)	TWA	400 ppm

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,15 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
	TWA	400 ppm 734 mg/m3 200 ppm

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,03 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	0,002 ppm 1468 mg/m3
	TWA	400 ppm 734 mg/m3 200 ppm

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	Ceiling	0,05 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	Ceiling	0,005 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,03 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,002 ppm
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	TWA	0,002 ppm

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	Ceiling	0,005 ppm
	TWA	0,002 ppm
ethyl acetate (CAS 141-78-6)	Ceiling	1100 mg/m3
	TWA	300 ppm 550 mg/m3 150 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	STEL	0,02 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	STEL	0,02 mg/m3
	TWA	0,02 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	TWA	0,02 mg/m3
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,02 mg/m3
	TWA	0,02 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	1460 mg/m3
	TWA	400 ppm 730 mg/m3

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value
		200 ppm
UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1		
Components	Type	Value
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]	STEL	0,07 mg/m3
2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]		
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]		
methylenediphenyl diisocyanate (CAS 5873-54-1)		
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]	STEL	0,07 mg/m3
2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]		
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]		
methylenediphenyl diisocyanate (CAS 101-68-8)		
	TWA	0,02 mg/m3
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]	TWA	0,02 mg/m3
2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]		
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]		
methylenediphenyl diisocyanate (CAS 5873-54-1)		
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	STEL	0,07 mg/m3
	TWA	0,02 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm
EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU		
Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm

Biological limit values

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended

Components	Value	Determinant	Specimen	Sampling Time
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	0,05 µmol/l	4,4'-Diaminodiphenyl following hydrolysis	Urine	*
	0,01 mg/l	4,4'-Diaminodiphenyl following hydrolysis	Urine	*

* - For sampling details, please see the source document.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	10 µg/g	4,4'-Diaminodiphenylmethane	Creatinine in urine	*

* - For sampling details, please see the source document.

UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2

Components	Value	Determinant	Specimen	Sampling Time
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	1 µmol/mol	Isocyanate-derived diamine	Creatinine in urine	*
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	1 µmol/mol	Isocyanate-derived diamine	Creatinine in urine	*

UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2

Components	Value	Determinant	Specimen	Sampling Time
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)	1 umol/mol	Isocyanate-derived diamine	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Germany DFG MAK (advisory): Skin designation

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]
 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]
 o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]
 methylenediphenyl diisoc (CAS 101-68-8) Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]
 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]
 o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]
 methylenediphenyl diisoc (CAS 101-68-8) Can be absorbed through the skin.

Greece OEL: Skin designation

ethyl acetate (CAS 141-78-6) Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]
 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]
 o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]
 methylenediphenyl diisoc (CAS 101-68-8) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1]
 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2]
 o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3]
 methylenediphenyl diisoc (CAS 101-68-8) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Color	Orange.
Odor	Solvent.
Melting point/freezing point	-117,4 °F (-83 °C) estimated
Boiling point or initial boiling point and boiling range	170,6 °F (77 °C) estimated
Flammability	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	2 %
Explosive limit - upper (%)	11 %
Flash point	45,0 °F (7,2 °C) estimated
Auto-ignition temperature	800 °F (426,67 °C) estimated
Decomposition temperature	Not available.
pH	7 @ 5% solution
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	124,3 hPa estimated
Density and/or relative density	
Density	0,91 g/cm ³ estimated
Vapor density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Percent volatile	95 % 1,14 % estimated
Specific gravity	0,91 estimated
VOC	860 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents. Nitrates.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

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

Acute toxicity Not known.

Components	Species	Test Results
ethyl acetate (CAS 141-78-6)		
Acute		
Oral		
LD50	Rabbit	4,9000000000000004 g/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Suspected of causing cancer.	

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)

IARC Monographs. Overall Evaluation of Carcinogenicity

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8) 3 Not classifiable as to carcinogenicity to humans.

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1) 3 Not classifiable as to carcinogenicity to humans.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8) Carcinogenic, Category 2.

4,4'-methylenediphenyl diisocyanate;
diphenylmethane4,4'-diisocyanate; [1]
2,2'-methylenediphenyl diisocyanate;
diphenylmethane2,2'-diisocyanate; [2]
o-(p-isocyanatobenzyl)phenyl isocyanate;
diphenylmethane-2,4'-diisocyanate; [3]
methylenediphenyl diisocyanate (CAS 5873-54-1)

Carcinogenic, Category 2.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Not applicable.
Specific target organ toxicity - repeated exposure	Not applicable.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.

11.2. Information on other hazards

Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	
Partition coefficient n-octanol/water (log Kow)	
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate	5,22
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
12.6. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
12.7. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1173
------------------------	--------

14.2. UN proper shipping name ETHYL ACETATE
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN1173
14.2. UN proper shipping name ETHYL ACETATE
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN1173
14.2. UN proper shipping name ETHYL ACETATE
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN1173
14.2. UN proper shipping name Ethyl acetate, Limited Quantity
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
ERG Code 3L
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1173
14.2. UN proper shipping name ETHYL ACETATE, Limited Quantity
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards
Marine pollutant No.
EmS F-E, S-D

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

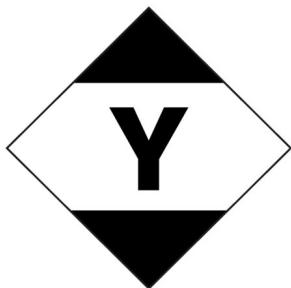
14.7. Maritime transport in bulk according to IMO instruments

Not established.

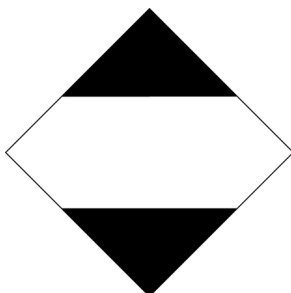
ADN; ADR; RID



IATA



IMDG



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

ethyl acetate (CAS 141-78-6)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

UFI:

Austria: 5R40-P0SC-D00Y-6J57
 Belgium: 5R40-P0SC-D00Y-6J57
 Bulgaria: 5R40-P0SC-D00Y-6J57
 Croatia: 5R40-P0SC-D00Y-6J57
 Cyprus: 5R40-P0SC-D00Y-6J57
 Czech Republic: 5R40-P0SC-D00Y-6J57
 Denmark: 5R40-P0SC-D00Y-6J57
 Estonia: 5R40-P0SC-D00Y-6J57
 EU: 5R40-P0SC-D00Y-6J57
 Finland: 5R40-P0SC-D00Y-6J57
 France: 5R40-P0SC-D00Y-6J57
 Germany: 5R40-P0SC-D00Y-6J57
 Greece: 5R40-P0SC-D00Y-6J57
 Hungary: 5R40-P0SC-D00Y-6J57
 Iceland: 5R40-P0SC-D00Y-6J57
 Ireland: 5R40-P0SC-D00Y-6J57
 Italy: 5R40-P0SC-D00Y-6J57
 Latvia: 5R40-P0SC-D00Y-6J57
 Lithuania: 5R40-P0SC-D00Y-6J57
 Luxembourg: 5R40-P0SC-D00Y-6J57
 Malta: 5R40-P0SC-D00Y-6J57
 Netherlands: 5R40-P0SC-D00Y-6J57
 Norway: 5R40-P0SC-D00Y-6J57
 Poland: 5R40-P0SC-D00Y-6J57
 Portugal: 5R40-P0SC-D00Y-6J57
 Romania: 5R40-P0SC-D00Y-6J57
 Slovakia: 5R40-P0SC-D00Y-6J57
 Slovenia: 5R40-P0SC-D00Y-6J57
 Spain: 5R40-P0SC-D00Y-6J57
 Sweden: 5R40-P0SC-D00Y-6J57

Authorizations**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

Restrictions on use**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended****- Conditions of restriction given for the associated entry number should be considered**

4,4'-methylenediphenyl diisocyanate; 56

diphenylmethane4,4'-diisocyanate; [1]

2,2'-methylenediphenyl diisocyanate;

diphenylmethane2,2'-diisocyanate; [2]

o-(p-isocyanatobenzyl)phenyl isocyanate;

diphenylmethane-2,4'-diisocyanate; [3]

methylenediphenyl diisocyanate (CAS 101-68-8)

4,4'-methylenediphenyl diisocyanate; 56

diphenylmethane4,4'-diisocyanate; [1]

2,2'-methylenediphenyl diisocyanate;

diphenylmethane2,2'-diisocyanate; [2]

o-(p-isocyanatobenzyl)phenyl isocyanate;

diphenylmethane-2,4'-diisocyanate; [3]

methylenediphenyl diisocyanate (CAS 5873-54-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 101-68-8)	Affections professionnelles provoquées par les isocyanates organiques 62
4,4'-methylenediphenyl diisocyanate; diphenylmethane4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate (CAS 5873-54-1)	Affections professionnelles provoquées par les isocyanates organiques 62
ethyl acetate (CAS 141-78-6)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84

Product registration number

Austria	UFI: 5R40-P0SC-D00Y-6J57
Belgium	UFI: 5R40-P0SC-D00Y-6J57
Czech Republic	UFI: 5R40-P0SC-D00Y-6J57
Denmark	UFI: 5R40-P0SC-D00Y-6J57
European Union	UFI: 5R40-P0SC-D00Y-6J57
Finland	UFI: 5R40-P0SC-D00Y-6J57
France	UFI: 5R40-P0SC-D00Y-6J57
Germany	UFI: 5R40-P0SC-D00Y-6J57
Greece	UFI: 5R40-P0SC-D00Y-6J57
Hungary	UFI: 5R40-P0SC-D00Y-6J57
Italy	UFI: 5R40-P0SC-D00Y-6J57
Netherlands	UFI: 5R40-P0SC-D00Y-6J57
Norway	UFI: 5R40-P0SC-D00Y-6J57
Poland	UFI: 5R40-P0SC-D00Y-6J57
Portugal	UFI: 5R40-P0SC-D00Y-6J57
Slovakia	UFI: 5R40-P0SC-D00Y-6J57
Slovenia	UFI: 5R40-P0SC-D00Y-6J57
Spain	UFI: 5R40-P0SC-D00Y-6J57
Sweden	UFI: 5R40-P0SC-D00Y-6J57
Switzerland	UFI: 5R40-P0SC-D00Y-6J57

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapor.
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.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The 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, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.