

## **SAFETY DATA SHEET**

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## **Purocol Express**

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

1.1. Product identifier

Product name : Purocol Express
Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

### 1.2.1 Relevant identified uses

Adhesive

#### 1.2.2 Uses advised against

No uses advised against known

### 1.3. Details of the supplier of the safety data sheet

#### Supplier of the safety data sheet

SOUDAL N.V.

Everdongenlaan 18-20

B-2300 Turnhout

**2** +32 14 42 42 31

**4** +32 14 42 65 14

msds@soudal.com

### Manufacturer of the product

SOUDAL N.V.

Everdongenlaan 18-20

B-2300 Turnhout

**2** +32 14 42 42 31

**♣** +32 14 42 65 14 msds@soudal.com

### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Carc.	category 2	H351: Suspected of causing cancer.
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Acute Tox.	category 4	H332: Harmful if inhaled.
STOT RE	category 2	H373: May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.

### 2.2. Label elements





Contains: methylenediphenyl diisocyanate.

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l-statements	

H351 Suspected of causing cancer.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-244<mark>0 Geel</mark>

http://www.big.be

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H335	May cause respiratory irritation.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P264	Wash hands thoroughly after handling.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

#### Supplemental information

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

### 2.3. Other hazards

No other hazards known

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

		CAS No EC No	Conc. (C)	Classification according	ng to CLP	Note	Remark
methylenediphenyl diisocyanate 01-2119457015-45		26447-40-5 247-714-0	C>25 %	Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335		(1)(2)(8)(10)	Constituent

<sup>(1)</sup> For H-statements in full: see heading 16

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

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

### 4.2.1 Acute symptoms

After inhalation:

Dry/sore throat. Coughing. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

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<sup>(2)</sup> Substance with a Community workplace exposure limit

<sup>(8)</sup> Specific concentration limits, see heading 16

<sup>(10)</sup> Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

Irritation of the gastric/intestinal mucosa.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

### 5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

### 5.3. Advice for firefighters

### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

### 6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Prevent spreading in sewers.

### 6.3. Methods and material for containment and cleaning up

Scoop solid spill into closing containers. Containers must not be sealed hermetically. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

### SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

### 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1 Safe storage requirements:

Store at room temperature. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Max. storage time: 1 year(s).

### 7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases, alcohols, amines, water/moisture.

### 7.2.3 Suitable packaging material:

Polyethylene.

### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 Occupational exposure

### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### UK

Isocyanates, all (as -NCO	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit 0.02 mg/m³
		(EH40/2005))
		Short time value (Workplace exposure limit (EH40/2005)) 0.07 mg/m <sup>3</sup>

#### b) National biological limit values

If limit values are applicable and available these will be listed below.

### 8.1.2 Sampling methods

Product name	Test	Number
4,4-Methylene Bisphenyl <mark>Isocyanate (MDI) (Isocyanates)</mark>	NIOSH	5521
Isocyanates	NIOSH	5521
Isocyanates	NIOSH	5522
Methylene Bisphenyl Isocvanate (MDI)	OSHA	47

### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

### **DNEL/DMEL - Workers**

methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	0.05 mg/m³	
		Acute systemic effects inhalation	0.1 mg/m³	
		Long-term local effects inhalation	0.05 mg/m³	
		Acute local effects inhalation	0.1 mg/m³	
		Acute systemic effects dermal	50 mg/kg bw/day	
		Acute local effects dermal	28.7 mg/cm <sup>2</sup>	

### **DNEL/DMEL - General population**

methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.05 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.025 mg/m³	
	Acute local effects inhalation	0.05 mg/m <sup>3</sup>	
	Acute systemic effects dermal	25 mg/kg bw/day	
	Acute local effects dermal	7.2 mg/cm <sup>2</sup>	
	Acute systemic effects oral	20 mg/kg bw/day	

#### <u>PNEC</u>

methylenediphenyl diisocyanate

Compartments	Value	Remark
Fresh water	1 mg/l	
Marine water	0.1 mg/l	
Aqua (intermittent rele <mark>ases)</mark>	10 mg/l	
STP	1 mg/l	
Soil	1 mg/kg soil dw	

### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

### b) Hand protection:

Protective gloves against chemicals (EN374).

### - materials (good resistance)

Polyethylene.

### c) Eye protection:

Safety glasses.

### d) Skin protection:

Protective clothing.

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### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form		Paste Paste
Odour		Characteristic odour
Odour threshold		No data available
Colour		Colourless
Particle size		No data available
Explosion limits		N <mark>o data availa</mark> ble
Flammability		Non-flammable
Log Kow		Not applicable (mixture)
Dynamic viscosity		No data available
Kinematic viscosity		No data available
Melting point		<mark>No data availa</mark> ble
Boiling point		No data availa <mark>b</mark> le
Evaporation rate		<mark>No data availa</mark> ble
Relative vapour density		No data available
Vapour pressure		No data available
Solubility		Water ; insoluble
Relative density		1.12
Decomposition temperat	ture	No data available
Auto-ignition temperatu	re	<mark>No data availa</mark> ble
Flash point		No data available
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		No data available

### 9.2. Other information

Absolute density 1120 kg/m³

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

**Precautionary measures** 

Keep away from naked flames/heat.

### 10.5. Incompatible materials

(strong) acids, (strong) bases, alcohols, amines, water/moisture.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Purocol Express

No (test)data on the mixture available

Classification is based on the relevant ingredients

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methylenediphenyl diisocyanate

Route of exposure	Paramete	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	Other	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Skin	LD50	Equivalent to OECD 402	> 9400 mg/kg bw	24 h	Rabbit (male / female)	Read-across	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	0.49 mg/l air	4 h	Rat (male / female)	Read-across	
Inhalation (aerosol)	LC50	OECD 403	> 2.24 mg/l air	1 h	Rat (male / female)	Read-across	
			category 4			Annex VI	

#### Conclusion

Harmful if inhaled.

Not classified as acute toxic if swallowed

Not classified as acute toxic in contact with skin

### Corrosion/irritation

### Purocol Express

No (test)data on the mixture available

Classification is based on the relevant ingredients

methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	Human observation			Human	Weight of evidence	
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	Human observation			Human	Weight of evidence	
Inhalation (aerosol)	Irritating	Human observation			Human	Weight of evidence	

### Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

### Respiratory or skin sensitisation

### **Purocol Express**

No (test)data on the mixture available

Classification is based on the relevant ingredients

methylenediphenyl diisocyanate

Route of exposure	Result	Method	•	Observation time point	Species	Value determination Remark	
Skin	Not sens <mark>itizing</mark>	Equivalent to OECD 429		24; 48 hours	Guinea pig (male / female)	Read-across	
Skin	Sensitizin <mark>g</mark>	Human observation			Human	Literature study	
Inhalation	Sensitizing	Other			Rat (male)	Experimental value	
Inhalation	Sensitizin <mark>g</mark>	Human observation			Human	Experimental value	

### Conclusion

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Specific target organ toxicity

### <u>Purocol Express</u>

No (test)data on the mixture available

Classification is based on the relevant ingredients

methylenediphenyl diisocyanate

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Route of exposure	Paramet	er Method	Value	Organ	Effect	Exposure time		Value determination
Inhalation	NOAEC	Equivalent to	0.2 mg/m³ air		No effect	104 weeks (6h / day, 5	Rat (male /	Read-across
(aerosol)		OECD 453				days / week)	female)	
Inhalation	LOAEC	Equivalent to	1 mg/m³ air	Lungs	Histopathologi	104 weeks (6h / day, 5	Rat (male /	Read-across
(aerosol)		OECD 453		_	cal changes	days / week)	female)	
Inhalation		Human			Lung tissue		Human	Experimental
		observation			affection/dege			value
					neration			

#### Conclusion

May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

Not classified as sub-chronically toxic in contact with skin

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Not classified as sub-chronically toxic if swallowed

### Mutagenicity (in vitro)

### **Purocol Express**

No (test)data on the mixture available

methylenediphenyl diisocyanate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Read-across
activation, negative without				
metabolic activation				

#### Mutagenicity (in vivo)

#### **Purocol Express**

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methylenediphenyl diisocyanate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	3 weeks (1h / day, 1 day	Rat (male)		Read-across
		/ week)			

### Conclusion

Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

#### Purocol Express

No (test)data on the mixture available

Classification is based on the relevant ingredients

methylenediphenyl diisocyanate

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation (aerosol)	NOAEL	Equivalent to OECD 453	O,	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect		Read-across
Inhalation (aerosol)	LOAEL	Equivalent to OECD 453	O,	104 weeks (6h / day, 5 days / week)	Rat (male / female)	Tumor formation	Lungs	Read-across

### Conclusion

Suspected of causing cancer.

### Reproductive toxicity

### Purocol Express

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methylenediphenyl diisocyanate

	Parameter	Method	Value	Exposure time	Species	Effect		Value determination
Developmental toxicity	NOAEL	OECD 414	4 mg/m³ air	10 days (6h / day)	Rat (female)	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	OECD 414	4 mg/m³ air	10 days (6h / day)	Rat (female)	No effect		Read-across

### Conclusion

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

### **Purocol Express**

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

#### Purocol Express

Itching. Skin rash/inflammation. Feeling of weakness. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

### SECTION 12: Ecological information

### 12.1. Toxicity

### **Purocol Express**

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/l	96 h	Brachydanio rerio	Static system	Fresh water	Read-across; Lethal
Acute toxicity crustacea	EC50	OECD 202	> 1000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across
Toxicity algae and other aquati plants	EC50	OECD 201	> 1640 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	1 10 1	Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across; Respiration

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	OECD 207	> 1000 mg/kg soil dw	14 day(s)	Eisenia fetida	Read-across
Toxicity terrestrial plants	EC50	Equivalent to OECD 208	> 1000 mg/kg soil dw	14 day(s)	Terrestrial plants	Read-across

### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

methylenediphenyl diisocyanate

Biodegradation water

Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability:	0 %; GLP	28 day(s)	Read-across
Modified MITI Test (II)			

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.92 day(s); GLP		QSAR

### Conclusion

Contains non readily biodegradable component(s)

### 12.3. Bioaccumulative potential

**Purocol Express** 

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

### methylenediphenyl diisocyanate

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	92; GLP	78 day/cl	Cyprinus carpio	Read-across

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117			22 °C	Experimental value

#### Conclusion

Does not contain bioaccumulative component(s)

### 12.4. Mobility in soil

No (test)data on mobility of the components available

### 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

**Purocol Express** 

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

methylenediphenyl diisocyanate

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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### SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

### 13.1.1 Provisions relating to waste

#### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

### 13.1.3 Packaging/Container

#### **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

### **SECTION 14: Transport information**

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	, , , , , , , , , , , , , , , , , , ,	
Transport		Not subject
14.2. UN proper shipping nat 14.3. Transport hazard class(		
Hazard identification nur	mber	
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardo	ous substance mark	no
14.6. Special precautions for	user	
Special provisions		
Limited quantities		
14.7. Transport in bulk accor	ding to Annex II of Marpol and the IBC	Code
Annex II of MARPOL 73/	78	Not applicable, based on available data

### **SECTION 15: Regulatory information**

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

VOC content Directive 2010/75/EU

VOC content		Remark
0.23 % - 0.384 %		
2.579 g/l – 4.301 g/l		

### REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

use of certain dangerous substances, mixtures and articles.				
	Designation of the substance, of the group of substances or of the mixture  Conditions of restriction			
· methylenediphenyl diisocyanate	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:  (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;  (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 5.1.  Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories are or one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be used in:  — crnamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures,			

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suppliers shall ensure, before the placing on the market, that the following requirements are a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission. methylenediphenyl diisocyanate Methylenediphenyl diisocyanate (MDI) 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in ncluding the following specific isomers: 4,4'concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general Methylenediphenyl diisocyanate; 2,4'public, unless suppliers shall ensure before the placing on the market that the packaging: Methylenediphenyl diisocyanate; 2,2'-(a) contains protective gloves which comply with the requirements of Council Directive Methylenediphenyl diisocyanate 89/686/EEC (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures: - Persons already sensitised to diisocyanates may develop allergic reactions when using this - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. 2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives National legislation Belgium **Purocol Express** No data available National legislation The Netherlands **Purocol Express** Waterbezwaarlijkheid B (4); Algemene Beoordelingsmethodiek (ABM) National legislation France **Purocol Express** No data available National legislation Germany Purocol Express WGK 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 National legislation United Kingdom Purocol Express No data available methylenediphenyl diisocyanate Skin Sensitisation Isocyanates, all (as -NCO) Except methyl isocyanate; Sen Respiratory sensitisation Isocyanates, all (as -NCO) Except methyl isocyanate; Sen Other relevant data Purocol Express No data available methylenediphenyl diisocyanate 3; 4,4'-methylenediphenyl diisocyanate and polymeric 4,4'-methylenediphenyl diisocyanate IARC - classification 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

### SECTION 16: Other information

Full text of any H-statements referred to under heading 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.

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H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

(\*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

#### Specific concentration limits CLP

Como Conconti attori minto CE				
methylenediphenyl diisoc <mark>yanate</mark>		C≥5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
		C≥5%	Skin Irrit. 2; H315	CLP Annex VI (ATP 1)
		C≥0.1 %	Resp. Sens. 1; H334	CLP Annex VI (ATP 1)
		C≥5%	STOT SE 3; H335	CLP Annex VI (ATP 1)

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