

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

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SDS No.: 528657

V002.0

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26.07.2017

Sista PU Foam TR

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

1.1. Product identifier

Sista PU Foam TR

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

Intended use:

Foam, 1-component with propellant gas

1.3. Details of the supplier of the safety data sheet

Henkel South Africa (PTY) Ltd. Cnr Bosworth & Potgieter St 1449 Alberton

South Africa

Phone: +27 (116172400)

ua-productsafety_za@henkel.com

1.4. Emergency telephone number

0800 202 202

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable aerosols Category 1

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Skin irritation Category 2

H315 Causes skin irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Respiratory sensitizer Category 1

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

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation. Target organ: respiratory tract irritation

Carcinogenicity Category 2

H351 Suspected of causing cancer.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Specific target organ toxicity - repeated exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

Chronic hazards to the aquatic environment Category 4

H413 May cause long lasting harmful effects to aquatic life.

Classification (DPD):

F+ - Extremely flammable

R12 Extremely flammable.

Xn - Harmful

carcinogenic, category 3

R40 Limited evidence of a carcinogenic effect.

Xn - Harmful

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R20 Harmful by inhalation.

Xi - Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

Sensitizing

R42/43 May cause sensitization by inhalation and skin contact.

Dangerous for the environment

R53 May cause long-term adverse effects in the aquatic environment.

R64 May cause harm to breastfed babies.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Diphenylmethane diisocyanate, isomers and homologues

Alkanes, C14-17, chloro

Signal word: Danger

Hazard statement: H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H373 May cause damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement: P102 Keep out of reach of children.

Precautionary statement:

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours.

P263 Avoid contact during pregnancy and while nursing. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection.

Precautionary statement:

Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary statement:

Disposal

P501 Dispose of contents/container in accordance with national regulation.

Label elements (DPD):

F+ - Extremely flammable







Risk phrases:

R12 Extremely flammable.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R64 May cause harm to breastfed babies.

R53 May cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2 Keep out of the reach of children.

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

Additional labeling:

Contains isocyanates. See information supplied by the manufacturer.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children

Contains:

Diphenylmethane diisocyanate, isomers and homologues

2.3. Other hazards

Information according to XVII. 56 REACH

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.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

1-Component PU foam in pressurized can

Base substances of preparation:

4,4'-Methylenediphenyl diisocyanate (MDI)

Propellant gas base: dimethyl ether / isobutane / propane / n-butane mixture

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
4,4'- methylenediphenyl diisocyanate 101-68-8	202-966-0	10- 30 %	Carc. 2 H351 Acute Tox. 4; Inhalation H332 STOT RE 2 H373 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Resp. Sens. 1 H334 Skin Sens. 1B
Diphenylmethane diisocyanate, isomers and homologues 9016-87-9		10- 20 %	Carc. 2 H351 Acute Tox. 4; Inhalation H332 STOT RE 2 H373 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Resp. Sens. 1 H334 Skin Sens. 1 H317
Alkanes, C14-17, chloro 85535-85-9	287-477-0	10- 20 %	Aquatic Acute 1 H400 Lact. H362 Aquatic Chronic 1 H410
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	227-534-9	5- < 15 %	STOT RE 2 H373 Carc. 2 H351 Acute Tox. 4; Inhalation H332 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Skin Sens. 1 H317 Resp. Sens. 1 H334
Dimethyl ether 115-10-6	204-065-8	5- < 10 %	Flam. Gas 1 H220 Press. Gas H280
Petroleum gases, liquefied 68476-85-7	270-704-2	5-< 10 %	Flam. Gas 1 H220 Press. Gas H280, H281
Isobutane 75-28-5	200-857-2	5-< 10 %	Flam. Gas 1 H220 Press. Gas
Polypropylene glycol 25322-69-4	500-039-8	1-< 5 %	Acute Tox. 4 H302

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
4,4'- methylenediphenyl diisocyanate	202-966-0	10 - 30 %	carcinogenic, category 3; R40
101-68-8			Xn - Harmful; R20, R48/20
			Xi - Irritant; R36/37/38
			R42/43
Diphenylmethane diisocyanate, isomers		10 - 20 %	carcinogenic, category 3; R40
and homologues			Xn - Harmful; R20, R48/20
9016-87-9			Xi - Irritant; R36/37/38
			R42/43
Alkanes, C14-17, chloro	287-477-0	10 - 20 %	R66
85535-85-9			R64
			N - Dangerous for the environment; R50/53
o-(p-Isocyanatobenzyl)phenyl	227-534-9	5 - < 15 %	carcinogenic, category 3; R40
isocyanate			Xn - Harmful; R20, R48/20
5873-54-1			Xi - Irritant; R36/37/38
			R42/43
Dimethyl ether	204-065-8	5 - < 10 %	F+ - Extremely flammable; R12
115-10-6			
Petroleum gases, liquefied	270-704-2	5 - < 10 %	F+ - Extremely flammable; R12
68476-85-7			
Isobutane	200-857-2	5 - < 10 %	F+ - Extremely flammable; R12
75-28-5			
Polypropylene glycol	500-039-8	1 - < 5 %	Xn - Harmful; R22
25322-69-4			

For full text of the R-Phrases indicated by codes see section 16 'Other Information'. Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Delayed effects possible after inhalation.

Skin contact:

Fresh foam: Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

May cause an allergic skin reaction.

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

In the event of fire, isocyanate vapors may be formed.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Avoid skin and eye contact.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Remove any dirt that gets onto the skin with vegetable oil; skin care.

7.2. Conditions for safe storage, including any incompatibilities

For pressurized can: protect from direct sunshine and temperatures above 50°C.

< + 35 °C

> +5 °C

Keep away from heat and direct sunlight.

Store in sealed original container.

Store in a cool, well-ventilated place.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with oxidants.

Do not store together with flammable solutions.

7.3. Specific end use(s)

Foam, 1-component with propellant gas

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

South Africa

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):		ZA CL(OEL)
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		ZA CL(OEL)
4,4'-Methylenediphenyl diisocyanate 101-68-8 [MDI 4,4'-METHYLENE-DIPHENYL DIISOCYANATE (MDI)]		0,02	Time Weighted Average (TWA):		ZA REL
4,4'-Methylenediphenyl diisocyanate 101-68-8 [MDI 4,4'-METHYLENE-DIPHENYL DIISOCYANATE (MDI)]		0,07	Short Term Exposure Limit (STEL):		ZA REL
4,4'-Methylenediphenyl diisocyanate 9016-87-9 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):		ZA CL(OEL)
4,4'-Methylenediphenyl diisocyanate 9016-87-9 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		ZA CL(OEL)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 [ISOCYANATES, ALL (AS -NCO)]		0,07	Short Term Exposure Limit (STEL):		ZA CL(OEL)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 [ISOCYANATES, ALL (AS -NCO)]		0,02	Time Weighted Average (TWA):		ZA CL(OEL)
Petroleum gases, liquefied 68476-85-7 [LIQUIFIED PETROLEUM GAS (LPG)]	1.250	2.250	Short Term Exposure Limit (STEL):		ZA REL
Petroleum gases, liquefied 68476-85-7 [LIQUIFIED PETROLEUM GAS (LPG)]	1.000	1.800	Time Weighted Average (TWA):		ZA REL

Predicted No-Effect Concentration (PNEC):

A-finethylenediphenyl diisocyanate squa limg/l li	Name on list	Environmental Compartment	Exposure period	Value				Remarks
101-88-8 (rieshwater) 4.4" methylenediphenyl diisocyanate 101-68-8 (rieshwater) 4.4" methylenediphenyl diisocyanate 101-68-8 (rieshwater) 101-68-8 (rieshw		- Compartment	periou	mg/l	ppm	mg/kg	others	
4.4" methylenediphenyl diisocyanate vater) 4.4" methylenediphenyl diisocyanate li lugil lu				1 mg/l				
44-methylenediphenyl diisocyanate 1 mg/l 1	4,4'- methylenediphenyl diisocyanate	aqua (marine		0,1 mg/l				
44'- methylenediphenyl diisocyanate treatment plant (STP) 44'- methylenediphenyl diisocyanate 101-68-8 44'- methylenediphenyl diisocyanate 101-68-8 101-6	4,4'- methylenediphenyl diisocyanate					1 mg/kg		
4.4" methylenediphenyl diisocyanate 101-68-8 4.4" methylenediphenyl diisocyanate 101-68-8 101-68-8 101-68-8 100-68-8 100-68-8 100-68-9 100	4,4'- methylenediphenyl diisocyanate	treatment plant		1 mg/l				
4-4: methylenediphenyl diisocyanate 10 mg.1 10 mg								
4.4" methylenediphenyl diisocyanate (intermit releases) Isocyanic acid, polymethylenepolyphenylene ester (freshwater) Isocyanic acid, polymethylenepolyphenylene ester (greshwater) Isocyanic acid, polymethylenepolyphenylene (greshwater) Ing/I (intermittent (greshwater) Ing/I	4,4'- methylenediphenyl diisocyanate	Predator						
Sester S	4,4'- methylenediphenyl diisocyanate	(intermit.		10 mg/l				
Incognic acid, polymethylenepolyphenylene sates step ste	ester			1 mg/l				
Incyanic acid, polymethylenepolyphenylene ester 1 mg/t	Isocyanic acid, polymethylenepolyphenylene ester			0,1 mg/l				
Socyanic acid, polymethylenepolyphenylene ester Socyanic acid, polymethylenepolyphenylene Socyanic acid, polymethylenepolyphen	Isocyanic acid, polymethylenepolyphenylene	Soil				1 mg/kg		
cster (reatment plant (STP) (STP)	9016-87-9			1 /1				
cster (intermittent releases)	ester 9016-87-9	treatment plant (STP)		I mg/I				
Alkanes, C14-17, chloro Agua (freshwater) Alkanes, C14-17, chloro Agua (marine water) Alkanes, C14-17, chloro Sewage treatment plant (STP) Sediment S533-85-9 (freshwater) Simple S633-85-9 (freshwater) S633-85-9 (fresh	ester	(intermittent		10 mg/l				
Alkanes, C14-17, chloro aqua (marine water) 8533-88-9 water)	Alkanes, C14-17, chloro	aqua		1 μg/l				
Alkanes, C14-17, chloro sewage treatment plant (STP)	Alkanes, C14-17, chloro	aqua (marine		0,2 μg/l				
Alkanes, C14-17, chloro Sediment (freshwater) S mg/kg	Alkanes, C14-17, chloro	sewage treatment plant		80 mg/l				
Alkanes, C14-17, chloro Sediment (marine water) 1 mg/kg		sediment				5 mg/kg		
Alkanes, C14-17, chloro Soil 10 mg/kg	Alkanes, C14-17, chloro	sediment				1 mg/kg		
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 aqua (marine water) > 0,1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 sewage treatment plant (STP) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 aqua (intermittent releases) 10 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 aqua (freshwater) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1 Soil > 1 mg/l Dimethyl ether 115-10-6 aqua (freshwater) 0,155 mg/l Dimethyl ether 115-10-6 (freshwater) 0,681 mg/kg Dimethyl ether 115-10-6 Soil 0,045 mg/kg Dimethyl ether 115-10-6 mg/kg 0,045 mg/kg	Alkanes, C14-17, chloro					10 mg/kg		
o-(p-Isocyanatobenzyl)phenyl isocyanate sewage treatment plant (STP) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (intermittent releases) 10 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (intermittent releases) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (freshwater) > 1 mg/l 5873-54-1 Soil > 1 mg/l Dimethyl ether aqua (freshwater) 0,155 mg/l 115-10-6 (freshwater) 0,681 mg/kg Dimethyl ether mg/kg 115-10-6 mg/kg Dimethyl ether sediment (freshwater) 0,045 mg/kg	o-(p-Isocyanatobenzyl)phenyl isocyanate			> 0,1 mg/l				
o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (intermittent releases) 10 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (freshwater) > 1 mg/l 5873-54-1 (freshwater) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate Soil > 1 mg/kg 5873-54-1 aqua 0,155 mg/l Dimethyl ether aqua 0,155 mg/l Dimethyl ether sediment 0,681 mg/kg 115-10-6 (freshwater) mg/kg Dimethyl ether Soil 0,045 mg/kg 115-10-6 mg/kg 0,045 mg/kg	o-(p-Isocyanatobenzyl)phenyl isocyanate	sewage treatment plant		> 1 mg/l				
o-(p-Isocyanatobenzyl)phenyl isocyanate aqua (freshwater) > 1 mg/l o-(p-Isocyanatobenzyl)phenyl isocyanate Soil > 1 mg/kg 5873-54-1 3 aqua (freshwater) 0,155 mg/l Dimethyl ether aqua (freshwater) 0,681 mg/kg Dimethyl ether sediment (freshwater) 0,045 mg/kg Dimethyl ether Soil 0,045 mg/kg		aqua (intermittent		10 mg/l				
o-(p-Isocyanatobenzyl)phenyl isocyanate Soil > 1 mg/kg 5873-54-1 aqua 0,155 mg/l 115-10-6 (freshwater) 0,681 Dimethyl ether sediment mg/kg 115-10-6 (freshwater) mg/kg Dimethyl ether Soil 0,045 115-10-6 mg/kg		aqua		> 1 mg/l				
Dimethyl ether	o-(p-Isocyanatobenzyl)phenyl isocyanate					> 1 mg/kg		
Dimethyl ether Sediment 0,681 mg/kg	Dimethyl ether			0,155 mg/l				
Dimethyl ether	Dimethyl ether	sediment						
	Dimethyl ether	`				0,045		
Dimethyl ether sewage 160 mg/l 115-10-6 treatment plant (STP)	Dimethyl ether			160 mg/l				
Dimethyl ether aqua (marine u15-10-6 water) 0,016 mg/l		aqua (marine		0,016 mg/l				
Dimethyl ether	Dimethyl ether	aqua		1,549 mg/l				

	releases)			
Dimethyl ether	sediment		0,069	
115-10-6	(marine water)		mg/kg	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
4,4'- methylenediphenyl diisocyanate 101-68-8	Workers	inhalation	Long term exposure - local effects		0,05 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	Workers	inhalation	Acute/short term exposure - local effects		0,1 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	General population	inhalation	Long term exposure - local effects		0,025 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	General population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Workers	dermal	Acute/short term exposure - systemic effects		50 mg/kg	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Workers	inhalation	Acute/short term exposure - systemic effects		0,1 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9		dermal	Acute/short term exposure - local effects		27,8 mg/kg	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9		inhalation	Acute/short term exposure - local effects		0,1 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9		inhalation	Long term exposure - systemic effects		0,05 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Workers	inhalation	Long term exposure - local effects		0,05 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	dermal	Acute/short term exposure - systemic effects		25 mg/kg	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	inhalation	Acute/short term exposure - systemic effects		0,05 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	oral	Acute/short term exposure - systemic effects		20 mg/kg	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	dermal	Acute/short term exposure - local effects		17,2 mg/cm2	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	inhalation	Long term exposure - systemic effects		0,025 mg/m3	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	General population	inhalation	Long term exposure - local effects		0,025 mg/m3	
Alkanes, C14-17, chloro 85535-85-9	Workers	inhalation	Long term exposure - systemic effects		6,7 mg/m3	
Alkanes, C14-17, chloro 85535-85-9	Workers	dermal	Long term exposure - systemic effects		47,9 mg/kg	
Alkanes, C14-17, chloro 85535-85-9	General population	oral	Long term exposure - systemic effects		0,58 mg/kg	
Alkanes, C14-17, chloro 85535-85-9	General population	inhalation	Long term exposure - systemic effects		2,0 mg/m3	
Alkanes, C14-17, chloro 85535-85-9	General population	dermal	Long term exposure - systemic effects		28,75 mg/kg	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	dermal	Acute/short term exposure - systemic effects		50 mg/kg	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	inhalation	Acute/short term exposure -		0,1 mg/m3	

			systemic effects		
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	dermal	Acute/short term exposure - local effects	28,7 mg/cm2	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	inhalation	Acute/short term exposure - local effects	0,1 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	inhalation	Long term exposure - systemic effects	0,05 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	Workers	inhalation	Long term exposure - local effects	0,05 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	dermal	Acute/short term exposure - systemic effects	25 mg/kg	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	inhalation	Acute/short term exposure - systemic effects	0,05 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	oral	Acute/short term exposure - systemic effects	20 mg/kg	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	dermal	Acute/short term exposure - local effects	17,2 mg/cm2	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	inhalation	Acute/short term exposure - local effects	0,05 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	inhalation	Long term exposure - systemic effects	0,025 mg/m3	
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	General population	inhalation	Long term exposure - local effects	0,025 mg/m3	
Dimethyl ether 115-10-6	Workers	inhalation	Long term exposure - systemic effects	1894 mg/m3	
Dimethyl ether 115-10-6	General population	inhalation	Long term exposure - systemic effects	471 mg/m3	

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Use attached gloves. Perforation time < 5 minutes.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance pressurized can

foam brownish

Odor slightly

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Melting point No data available / Not applicable
Solidification temperature No data available / Not applicable
Initial boiling point No data available / Not applicable

Flash point $-20 \,^{\circ}\text{C} \, (-4 \,^{\circ}\text{F})$

Evaporation rate

Flammability

No data available / Not applicable
No data available / Not applicable
Explosive limits

No data available / Not applicable
Vapour pressure

No data available / Not applicable
No data available / Not applicable
Relative vapour density:

No data available / Not applicable

Density 1,2 g/cm³

(23°C (73.4°F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Reacts slowly with water to liberate carbon dioxide gas.

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Viscosity

No data available / Not applicable
Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable
Oxidising properties

No data available / Not applicable
No data available / Not applicable

Solid content 0 %

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Pressure build-up in closed containers. Reaction with water, alcohols, amines.

Reaction with water, formation of CO2

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Temperatures over appr. 50 °C Humidity

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

General toxicological information:

Cross-reactions with other isocyanate compounds are possible.

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
4,4'- methylenediphenyl	LD50	> 2.000 mg/kg	rat	other guideline:
diisocyanate				
101-68-8				
Diphenylmethane	LD50	> 10.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
diisocyanate, isomers and				, ,
homologues				
9016-87-9				
Alkanes, C14-17, chloro	LD50	> 4.000 mg/kg	rat	not specified
85535-85-9				•
o-(p-	LD50	> 2.000 mg/kg	rat	other guideline:
Isocyanatobenzyl)phenyl				
isocyanate				
5873-54-1				
Polypropylene glycol	LD50	1.000 - 2.000	rat	not specified
25322-69-4		mg/kg		

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
4,4'- methylenediphenyl diisocyanate 101-68-8	LD50	> 9.400 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Diphenylmethane diisocyanate, isomers and homologues 9016-87-9	LD50	> 9.400 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Alkanes, C14-17, chloro 85535-85-9	LD50		rat	not specified
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	LD50	> 9.400 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Polypropylene glycol 25322-69-4	LD50	> 3.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation. In the event of protracted or repeated exposure, damage to health cannot be excluded.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type		_	time	_	
Dimethyl ether	LC50	164000 ppm		4 h	rat	not specified
115-10-6						
Isobutane	LC50	260200 ppm	gas	4 h	mouse	not specified
75-28-5						

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alkanes, C14-17, chloro 85535-85-9	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Polypropylene glycol 25322-69-4	not irritating	24 h	rabbit	EPA OPPTS 870.2500 (Acute Dermal Irritation)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Polypropylene glycol 25322-69-4	not irritating		rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	sensitising	Respiratory sensitisation	guinea pig	not specified
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Polypropylene glycol 25322-69-4	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobutane 75-28-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Polypropylene glycol 25322-69-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Polypropylene glycol 25322-69-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Polypropylene glycol 25322-69-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isobutane 75-28-5	negative			Drosophila melanogaster	not specified

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	carcinogenic	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Polypropylene glycol 25322-69-4	NOAEL P >= 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction /
	NOAEL F1 >= 1.000 mg/kg				Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8		inhalation: aerosol	main: 2 y; satellite:1 y 6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Diphenylmethane diisocyanate, isomers and homologues 9016-87-9	NOAEL 0,2 mg/m³	inhalation: aerosol	2 y 6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	NOAEL 0,2 mg/m³	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Dimethyl ether 115-10-6	NOAEL > 10000 ppm	inhalation	4 week 6 hours/day, 5 days/week	rat	not specified
Isobutane 75-28-5		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Polypropylene glycol 25322-69-4	NOAEL >= 1.000 mg/kg	oral: gavage	31 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl	LC50	> 1.000 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish,
diisocyanate					Acute Toxicity Test)
101-68-8					
Diphenylmethane	LC50	> 1.000 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish,
diisocyanate, isomers and					Acute Toxicity Test)
homologues					
9016-87-9					
Alkanes, C14-17, chloro	NOEC	> 1,6 mg/l	20 d	Oryzias latipes	OECD Guideline 210 (fish
85535-85-9					early lite stage toxicity test)
Alkanes, C14-17, chloro	LC50	> 5.000 mg/l	96 h	Alburnus alburnus	OECD Guideline 203 (Fish,
85535-85-9					Acute Toxicity Test)
o-(p-Isocyanatobenzyl)phenyl	LC50	> 1.000 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish,
isocyanate					Acute Toxicity Test)
5873-54-1					
Dimethyl ether	LC50	> 4.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish,
115-10-6					Acute Toxicity Test)
Polypropylene glycol	LC50	> 100 mg/l	96 h	Pimephales promelas	not specified
25322-69-4					_

Toxicity (Daphnia):

EC50 > 100 mg product/l.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		-		
4,4'- methylenediphenyl	EC50	129,7 mg/l	24 h	Daphnia magna	OECD Guideline 202
diisocyanate					(Daphnia sp. Acute
101-68-8					Immobilisation Test)
Diphenylmethane	EC50	> 1.000 mg/l	24 h	Daphnia sp.	OECD Guideline 202
diisocyanate, isomers and					(Daphnia sp. Acute
homologues					Immobilisation Test)
9016-87-9					
Alkanes, C14-17, chloro	EC50	0,0059 mg/l	48 h	Daphnia magna	OECD Guideline 202
85535-85-9					(Daphnia sp. Acute
					Immobilisation Test)
Dimethyl ether	EC50	> 4.000 mg/l	48 h	Daphnia magna	OECD Guideline 202
115-10-6					(Daphnia sp. Acute
					Immobilisation Test)
Polypropylene glycol 25322-69-4	EC50	> 100 mg/l	48 h	Daphnia magna	not specified

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl diisocyanate 101-68-8	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Alkanes, C14-17, chloro 85535-85-9	NOEC	0,01 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

EC50 > 100 mg product/l.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_	_	
4,4'- methylenediphenyl	EC50	> 1.640 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
diisocyanate				name: Desmodesmus	Growth Inhibition Test)
101-68-8				subspicatus)	
4,4'- methylenediphenyl	NOELR	1.640 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
diisocyanate				name: Desmodesmus	Growth Inhibition Test)
101-68-8				subspicatus)	
Diphenylmethane	EC50	> 1.640 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
diisocyanate, isomers and					Growth Inhibition Test)
homologues					
9016-87-9					
Alkanes, C14-17, chloro	ErC50	> 3,2 mg/l	72 h		OECD Guideline 201 (Alga,
85535-85-9					Growth Inhibition Test)
Alkanes, C14-17, chloro	NOEC	0,1 mg/l	72 h		OECD Guideline 201 (Alga,
85535-85-9					Growth Inhibition Test)
Dimethyl ether	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
115-10-6					Growth Inhibition Test)
Isobutane	EC50	7,71 mg/l	96 h		not specified
75-28-5		_			_

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209
diisocyanate				_	(Activated Sludge,
101-68-8					Respiration Inhibition Test)
Alkanes, C14-17, chloro	EC 50	> 2.000 mg/l	3 h		OECD Guideline 209
85535-85-9					(Activated Sludge,
					Respiration Inhibition Test)
Dimethyl ether	EC10	> 1.600 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
115-10-6					(Bacterial oxygen
					consumption test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Alkanes, C14-17, chloro 85535-85-9		aerobic	90 %	10 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Dimethyl ether 115-10-6	not readily biodegradable.	aerobic	5 %	28 d	EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Alkanes, C14-17, chloro 85535-85-9	1,09 - 349	35 d		Oncorhynchus mykiss	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	4,51	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	5,22		not specified
Dimethyl ether 115-10-6	0,07	25 °C	QSAR (Quantitative Structure Activity Relationship)
Isobutane 75-28-5	2,88	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
4,4'- methylenediphenyl diisocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-68-8	Bioaccumulative (vPvB) criteria.
Diphenylmethane diisocyanate, isomers and homologues 9016-87-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alkanes, C14-17, chloro 85535-85-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
o-(p-Isocyanatobenzyl)phenyl isocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
5873-54-1	Bioaccumulative (vPvB) criteria.
Dimethyl ether	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
115-10-6	Bioaccumulative (vPvB) criteria.
Isobutane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
75-28-5	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

160504 gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR RID ADN IMDG IATA

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

(VOCV 814.018 VOC regulation CH)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

R12 Extremely flammable.

R20 Harmful by inhalation.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R64 May cause harm to breastfed babies.

R66 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H281 Contains refrigerated gas; may cause cryogenic burns or injury.

H302 Harmful if swallowed.

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.

H362 May cause harm to breast-fed children.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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