TURBO FOAM cod.85215001 Version: 01/ EN

### SAFEY DATA SHEET in accordance with Regulation (CE) Num. 1907/2006 (REACH)

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifier:** TURBO FOAM cd.85215001 1.2 Relevant identified uses of the substance or mixture and uses advised against: Polyurethane foam self-expanding for filling, insulating, sealing cavities. Uses advised against: this product is not recommended for all those uses not specifically identified on the label. Details of the supplier of the safety data sheet: 1.3 1.3.1 **Company specification** SARATOGA INT. SFORZA SPA Company name: Via Edison 76 Address: 20090 Trezzano s/Naviglio (MI) ITALY Tel./fax.: + 39 02 445731 / +39 02 4452742 www: www.saratoga.it e-mail: trading@saratogasforza.com 1.3.2 A person qualified and responsible for safety data sheet: e-mail: trading@saratogasforza.com 1.4 **Emergency telephone number :** CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24) CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24) CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24) CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24) CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24) CAV - Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 7947819(h24) CAV - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24444 (h24)

CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)

CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300 (h24)

### SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture Classification according to EU Regulation no. 1272/2008 Aerosol 1 H222, H229 Acute Tox. 4 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
Carc. 2 H351
Aquatic Chronic 4 H413
Lact. H362
The full text of "H-phrases" is stated in Section 16 of this Safety Data Sheet.
Classification notes:
Note: The calculation method takes into account the requirements of the CLP Regulation for the classification of aerosols in line with paragraph 1.1.3.7 of Annex I, Part 1, CLP.
Classification of the mixture is carried out in accordance with the standpoint of the Association of the European Adhesive & Sealant Industry, of FEICA, who by using ecotoxicological tests supported the classification of foams containing max. 20% of chlorinated
hydrocarbons such as Aquatic Chronic 4 H413. The most serious adverse physic-chemical effects
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Build up of explosive mixtures possible without sufficient ventilation.
The most serious adverse effects on human health
Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
Suspected of causing cancer. May cause harm to breast-fed children.
Persons with airways hypersensitivity (e.g. asthma, chronic bronchitis) must not come into contact with the product. Symptoms may also occur with auropage a single a fear of an hour. Dust warpage and consols are homeful to require toot.
with overexposure airways after a few hours. Dust, vapours and aerosols are harmful to respiratory tract. The most serious adverse effects on the environment

May cause long lasting harmful effects to aquatic life.

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2.2 2.2.1 Label elements The label elements in accordance with Regulation no. (EC) no. 1272/2008 DANGER H222 Extremely flammable aerosol. H229 Pressurized container: may burst if heated. 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. H413 May cause long lasting harmful effects to aquatic life. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. 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 Pressurized container: do not pierce or burn, even after use. P260 Do not breathe spray. P263 Avoid contact during pregnancy and while nursing. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of water and soap. 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. P337 + P313 If eye irritation persists: Get medical advice/attention. P405 Store locked up. P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 oC/122oF. P501 Dispose of contents / container in authorized collection centers. EUH204 Contains isocyanates. May produce an allergic reaction. In case of insufficient ventilation may form explosive mixtures Content: Diphenylmethanediisocyanate, isomers and homologues; alkanes, C14-17, chloro Information according to Commission REGULATION (EC) No 552/2009 of 22 June 2009, that must appear on the label of the product. Persons already sensitized 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) 2.3 Other hazards The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of EU Regulation 1907/2006. **Further information** 2.4 Not to be used in a range of ignition sources. Further information necessary to be added to the product label complying with other regulations, see Section 15. **SECTION 3** COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Prepolymer (composition polyol and polymeric isocyanate) with freon-free low-boiling propulsion medium

Hazardous substances:	Index No. EINECS. CAS No. Registration No.	Content (% ww)	Classification Classification acc. (EC) No. 1272/2008
Diphenylmethanediisocyanate, isomers and homologues	- - 9016-87-9 -	30-60	Carc. 2 H351 Acute Tox. 4 H332 STOT RE 2 H373 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Resp. Sens. 1 H334

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			Skin Sens. 1 H317
alkanes, C14-17, chloro; chlorinated paraffins, C14-17	602-095-00-X 287-477-0 85535-85-9 01-2119519269-33-xxxx	> 22	Lact. H362 Aquatic Acute 1 H400 M=100 Aquatic Chronic 1 H410
Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3- dioxane-5-methanol and propylidynetrimethanol	- 904-153-2 01-2119488034-38-xxxx	1-4	Eye Irrit. 2 H319
Isobutane	601-004-00-0 200-857-2 75-28-5 01-2119488034-38-xxxx	5-10	Flam. Gas 1 H220 Press. Gas H280
Dimethylether	603-019-00-8 204-065-8 115-10-6 01-2119472128-37-xxxx	5-10	Flam. Gas 1 H220 Press. Gas H280
Propane	601-003-00-5 200-827-9 74-98-6 01-2119486944-21-xxxx	1-5	Flam. Gas 1 H220 Press. Gas H280

#### **SECTION 4** FIRST AID MEASURES

4.1	Description of first aid measures
4.1.1	General information
	In the case of health problems or if in doubt, seek medical advice and provide information from this safety data sheet. In case of
	unconsciousness place patient in recovery position and await ambulance.
4.1.2	In case of inhalation:
	Stop exposure to vapours and relocate patient from exposure to the fresh air. Ensure the patient is calm and rests, avoiding physical exertion.
	Avoid exposure to cold. In case of breathing difficulties seek medical help.
4.1.3	In case of eye contact:
	Remove contact lenses if used. Immediately rinse eyes with clean and lukewarm running water for at least 15 min. Eyes should be wide open
	especially to rinse under eyes lids. Seek medical advice if the pain or eye redness persists.
4.1.4	In case of contact with skin:
	Remove contaminated clothing, rinse contaminated skin with soap under running water. If there are signs of a strong irritation (redness of the
	contaminated skin) or skin damage, seek medical advice.
4.1.5	In case of ingestion:
	Not anticipated. An aerosol spray.
	Calm the victim and keep him/her in warm. Seek medical advice immediately and show product label or this safety data sheet.
4.2	Most important symptoms and effects, both acute and delayed.
	In case of inhalation irritation of mucous membranes of the airways can occur in sensitive people.
	Local skin irritation (redness, itchiness). Degreases and dries skin.
	Local eye conjunctiva irritation (redness, burning eyes, eye watering)
	May cause irritation to the gastrointestinal tract accompanied by abdominal pain and nausea, even vomiting and diarrhoea can occur.
4.3	Indication of any immediate medical attention and special treatment needed
	In standard use immediate medical attention is not needed required only if the symptoms become more pronounced.
SECTION 5	FIREFIGHTING MEASURES
blenon	
5.1	Extinguishing media
5.1.1	Suitable extinguishing media:
	Carbon dioxide (CO <sub>2</sub> ), multipurpose powders, sand, soil
5.1.2	Unsuitable extinguishing media:
	Water in small quantities and a full water jet. Water can be used only for cooling products (containers) near the fire.
5.2	Special hazards arising from the substance or mixture:

### Special hazards arising from the substance or mixture:

Product contains easily flammable vapours and liquids.

In case of fire smoke is created and carbon oxides (CO and CO2) can occur, soot, various hydrocarbons and aldehydes are also created by incomplete combustion and thermolysis. Do not inhale combustion gases. As gases are usually heavier then air they gather at the lowest points and there is risk of re-ignition or explosion. The propellant gas explosive limit with air at standard temperature and vapour or mist volume is 1,5 - 1,6 %.

Fire residues and contaminated fire extinguishing liquid must be disposed off according to local rules and regulations. Remove products away from fire or at lest cool them with a water jet.

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1000 ppm

5.3 Advice for fire fighters: In case of fire, wear suitable protective equipment - respiratory/breathing apparatus. **SECTION 6** ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures 6.1 6.1.1 For non - emergency personnel Avoid contact with eyes and skin. Do not inhale any gases/vapours/aerosols. Ensure effective ventilation. Due to the potential exposure to hazardous agents, wear suitable protective equipment (resistant gloves, protective glasses and clothing). Eliminate all sources of ignition. Switch off all electrical devices that can create sparks (Sections 7 and 8). Gas vapours are heavier than air. Do not allow vapours to drain. 6.1.2 For emergency responders See section 8 6.2 **Environmental precautions** Avoid draining into sewage/surface water/ground water. 6.3 Methods and material for containment and cleaning up Cover the contaminated area with damp soil or sand and allow at least for 30 minutes for this to take effect. Then remove mechanically. PU CLEANER product or organic solvents such as acetone can remove uncured foam. Reference to other sections 6.3 See sections 7, 8 and 13 6.3 Methods and material for containments and cleaning up Cover the contaminated area with moist soil and leave for at least 30 minutes to react. Remove the debris afterwards. Fresh foam can be cleaned with PU-CLEANER or organic solvents like acetone. 6.4 **Reference to other sections** For further information, see Sections 7, 8 and 13 **SECTION 7** HANDLING AND STORAGE 7.1 Precautions for safe handling Avoid contact with skin and eyes. Do not inhale any gases/vapours/aerosols. Ensure effective ventilation. Due to the potential exposure to hazardous agents, wear suitable protective equipment (resistant gloves, protective glasses and clothing). Do not smoke. Switch off all electrical devices that can create sparks (Sections 7 and 8). Implement precautionary measures to prevent the accumulation of an electrostatic charge. Work in accordance with an instruction manual - special protective measures are not necessary. 7.1.1 Preventive measures to protect the environment: If used normally not necessary. In case of accident see section 6. 7.1.2 Specific requirements or rules relating to the substance or mixture: Store in original containers in a cool dry place. Keep away from heat sources. Conditions for safe storage, including any incompatibilities 7.2 Store in original container in a cool dry place. Keep away from heat sources. Avoid accumulation of static electricity. No smoking. Requirements on type of material used in the packaging / container: 7.2.1 Aerosol cans -material FE (40) or ALU (41). Do not store with food, beverages and animal feed. Keep out of reach of children The products are under constant pressure! Keep out of direct sunlight and do not expose to temperatures exceeding +50 °C 7.3 Specific end use(s) The mixture is applied by spraying on the areas to be filled with PU foam. **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION** 8.1 **Control parameters** 8.1.1 Substances for which following concentration of occupational exposure limit values are set (COMMISSION DIRECTIVE 2000/39/EC as amended) Chemical name CAS Number **Eight hours** Short-term 1920 mg/m<sup>3</sup> Dimethylether 115-10-6 2000

The lists valid during the making were used as basis.

Information relevant in the country of distribution to be added 8.1.2

# Values DNEL and PNEC

Mixture values are not available. Values DNEL for the mixture components

8.1.2.1

CAS: 101-68-8: 4,4'-methylendiphenyl diisocyanate								
DNEL		Consumer				inky pro pracovník	xy (profesionály	y)
Route	Acute Acute Chronic Local Chronic			Acute	Acute	Chronic	Chronic	
	Local effects	Systemic effects	effects	Systemic	Local effects	Systemic	Local	Systemic
				effects		effects	effects	effects
Oral		20 mg/kg bw/d	<i>n.a.</i>	<i>n.a.</i>				
Inhalation	0.05 mg/m <sup>3</sup>	$0.05 \text{ mg/ m}^3$	0.025 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	$0.1 \text{ mg/m}^3$	$0.1 \text{ mg/m}^3$	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Dermal	17.2 mg/cm <sup>2</sup>	25 mg/kg bw/d	n.a.	n.a.	28.7 mg/cm <sup>2</sup>	50 mg/kg bw/d	n.a.	n.a.
PNEC								
Fresh water		1 mg/l						

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Marine water		0,1 mg/l						
sporadic relea	se	10 mg/kg						
Sewage Treat	ment Plant	1 mg/kg						
Terrestrial Compartment 1 mg/kg soil								
CAS: 85535-	85-9: alkanes, C1	4-17, chloro						
DNEL		Co	nsumer			Wo	rkers	
Route	Acute	Acute	Chronic Local	Chronic	Acute	Acute	Chronic	Chronic
	Local effects	Systemic effects	effects	Systemic effects	Local effects	Systemic effects	Local effects	Systemic effects
Oral								
Inhalation			0,58 mg/kg bw/d	2 mg/m <sup>3</sup>				6,7 mg/m <sup>3</sup>
Dermal				28,75 mg/kg bw/d				47,9 mg/kg bw/d
PNEC				oma				oma
Fresh water			1 μg/l					
Marine water			0,2 µg/l					
Terrestrial Co	mpartment		10.5 mg/kg Wet (	Soil)				
	sms (sewage treatr	nent plant)	80 mg/l	. /				
sediment (Fre		• /	5 mg/kg					
sediment (Ma	rine water):		1 mg/kg					
8.1.3	Recommende	d measurements	methods in the wor	k environment				
	Gas chromatog							
8.1.4	The Values of Not listed	biological exposi	ure tests (BET)					
8.1.5	Recommende Not listed	d procedures for	determining biolog	ical exposure tests	:			
8.1.6	Exposure scent Currently not h							
8.2	Exposure con							
8.2.1	No special equ		ols provided that the pr is used in well-venti		accordance with the	e general princip	les of hygiene a	nd public safety.
8.2.2	When selectin delivery certifi	g protective equip icate should be ava	s, such as personal j pment, the employer ilable. It must be en- ve equipment (Czecl	r must ensure that sured that correct p	relevant standards rotective equipment	is available to p	otential users.	, a manufacturer
8.2.2.1	A General hy While working	<b>gienic and protec</b> g with the product		smoke. Avoid cont	act with eyes and sk	ŕ		the product
8.2.2.2	<b>Respiratory p</b> Under standard	orotection d usage not necess	ary, however a prolo	nged stay in poorly		ceeding the use of	f appropriate re	espiratory
8.2.2.3	protective equipment – (from gas and combined filters) is essential. <b>Hand protection</b> Suitable materials for safety gloves; EN 374 : Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min Recommendation: contaminated gloves should be disposed of							
8.2.2.4	Recommendation: contaminated gloves should be disposed of. Eye protection							
8.2.2.5	Protective glasses <b>Protecting skin (the whole body)</b> Protective work clothing; do not eat, drink or smoke while working; Remove soiled or contaminated clothing. Wash clothing before re-using. After work, Wash hands with warm water and soap and Use suitable skin care products.							
8.2.3	Environment	al exposure contr						
SECTION 9	PHYSIC	AL AND CHEMI	CAL PROPERTIE	S				

# 9.1

9.1 Information on basic physical and chemical properties				
Appearance:	Liquid in aerosol containers			
Odour	According to product specifications			
Odour Threshold	Not specified			
Colour	Not specified			
pH	Not applicable			
Melting point/freezing point	Not assessed at the foam			
	MDI: < 0 °C, ISO 3016			
Boiling point/boiling range	Not specified			

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Flash point	MDI: > 200 °C, DIN 53171
Evaporation rate	propellant is released, the emerging PU-foam does not evaporate
Flammability (solid, gas)	extremely flammable aerosol
Upper/lower flammability or explosive limits	16 vol % (liquefied gas)
	1,5 vol % (liquefied gas)
Vapour pressure	< 0,7 MPa (at20 °C) - liquefied gas; < 0,0001 hPa - MDI
Vapour density	unknown
Relative density	$1,2 \text{ g/cm}^3$ (at 20 °C) – without the propulsion gas
-	$1,0 \text{ g/cm}^3$ (at 20 °C) – included propulsion gas
Solubility In water	insoluble, reacts with water
In organic solvents	soluble in polar organic solvents before curing
Partition coefficient: n-octanol/water	Not specified
Auto-ignition temperature	226 °C at 1 013 hPa (dimethylether)
Decomposition temperature	Not specified
Viscosity	For the mixture not known
-	MDI: >= 200 mPa.s at 20 °C, DIN 53019
Explosive properties	Product is not explosive but it is possible to form explosive mixtures with air.
Oxidising properties	unknown
9.2 Other information	
Organic solvents content (propulsion gas)	0,2 kg/kg of product

SECTION 10	STABILITY AND REACTIVITY	
10.1	Reactivity	
10.2	The product under standard conditions of use is stable as	nd does not degrade.
10.2	<b>Chemical stability</b> The product under standard conditions of use is stable as	nd does not degrade
10.3	Possibility of hazardous reactions	iu does not degrade.
10.5		ading water - and / or air humidity, carbon dioxide is produced and increases the
		ng oxidizing agents, e.g. hydrogen peroxide, nitric acid
10.4	Conditions to avoid	
	Temperatures above the flash point, open flames, static	electricity, under standard conditions of use hazardous reactions are not known.
10.5	Incompatible materials	
	Strong acids, strong oxidizing agents, water. Eg.: Hydro	gen peroxide, nitric acid
10.6	Hazardous decomposition products	
	Under standard usage does not occur.	- CO NO UCN) and and had a state of the state of the lation is been denoted
10.7	Further information	g. CO, NO, HCN), various hydrocarbons, aldehydes and soot. Inhalation is hazardous.
10.7	Potentially dangerous exothermic reaction	
100701	in contact with water, the temperature and pressure incre	ases (inside the can)
10.7.2	Changes in physical properties effecting stability and	
		f the packaging) there is a risk of an aerosol can bursting.
10.7.3	Hazardous degradation products when in contact with	
	When sprayed, reacts with water and curing into PU foa	m.
SECTION 11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Information on toxicological effects Mixture	
11.1	<b>Information on toxicological effects</b> <b>Mixture</b> For mixture (content of cartridge) are not relevant toxico	logical data available. The mixture was evaluated by calculation methods
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity:	Harmful if inhaled.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation:	Harmful if inhaled. Causes skin irritation.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation:	Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation:	Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation:	Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity:	Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Data not available Suspected of causing cancer.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity	Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Data not available Suspected of causing cancer. May cause harm to breast-fed children.
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxicol Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity STOT-single exposure:	<ul> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Data not available</li> <li>Suspected of causing cancer.</li> <li>May cause harm to breast-fed children.</li> <li>May cause respiratory irritation.</li> </ul>
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxicol Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity STOT-single exposure: STOT-repeated exposure:	<ul> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Data not available</li> <li>Suspected of causing cancer.</li> <li>May cause harm to breast-fed children.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>
11.1 11.1.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxicol Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity STOT-single exposure: STOT-repeated exposure: Aspiration hazard:	<ul> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Data not available</li> <li>Suspected of causing cancer.</li> <li>May cause harm to breast-fed children.</li> <li>May cause respiratory irritation.</li> </ul>
11.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/ irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity STOT-single exposure: Aspiration hazard: Experience from human exposure	<ul> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Data not available</li> <li>Suspected of causing cancer.</li> <li>May cause harm to breast-fed children.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>
11.1 11.1.1	Information on toxicological effects Mixture For mixture (content of cartridge) are not relevant toxico Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Skin sensitisation/ Respiratory sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity STOT-single exposure: STOT-repeated exposure: Aspiration hazard: Experience from human exposure 4,4'-methylendiphenyl diisocyanate:	<ul> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Data not available</li> <li>Suspected of causing cancer.</li> <li>May cause harm to breast-fed children.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>does not meet the classification criteria</li> </ul>
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				SAFEY DATA SHEET	
			in accordar	nce with Regulation (CE) Nu	ım. 1907/2006
				(REACH)	
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	VEI 31011.				
11.3	3	Further informat			
		computational me	-	of the product and the actual effect	on humans. The mixture is evaluated by conventional
		computational me	ulous.		
SEA	TION 12	ECOLOCIC	AL INFORMATION		
SE	CTION 12	ECOLOGIC	CAL INFORMATION		
12.1	L	Toxicity			
				ant toxicological data available.	
			<u>enyl diisocyanate</u> /l Danio rerio 96 h (OECD 20/	13)	
			/l Daphnia magna, 24 h. (OEC		
			Daphnia magna 21 d (OECD		
			g/l scenedesmus subspicatus 7		
			activated sludge, 3 h., (OECD		
			g/kg Eisenia fetida, 14 d. (OE g/kg Avena sativa, 14 d. (OE0		
			g/kg Avena sativa	_D 208)	
		expozice: 14 d. (C			
			g/kg Lactuca sativa, 14 d. (OB		
			te )> 1.000 mg/kg Lactuca sat	tiva, 14 d. (OECD 208)	
		alkanes, C14-17, o		a very small due to low velatility. E	Estimated atmospheric half life is 1 - 2 days.Biodegredation
					& 50% chlorination showed 57% and 51% degradation of
					n tests conducted on two C16 chlorinated paraffins
				fe (DT50) of 12 days and 58 days in	n freshwater sediment respectively
12.2	2	Persistence and o			
		Biodegradability Diphenylmethane			
		Type of test: aerol			
		The inoculum: act			
		Biodegradation: 0	0%, 28 d, ie. is not potentially	degradable	
		Method: OECD 3			
			• •	s product is not readily biodegradable	e.
		alkanes, C14-17, Concentrations in		e very small due to low volatility F	Estimated atmospheric half life is 1 - 2 days.Biodegredation
			· · ·		& 50% chlorination showed 57% and 51% degradation of
					n tests conducted on two C16 chlorinated paraffins
				fe (DT50) of 12 days and 58 days in	n freshwater sediment respectively
12.3	3	<b>Bioaccumulative</b> Diphenylmethane			
			factor (BCF): < 14		
		Type: Cyprinus ca			
		duration of exposi			
		Concentration: 0,2			
		Method: OECD 3			
		• •	s not accumulate in organisms yzes in water rapidly.	•	
		Study of the hydro	1 5		
		alkanes, C14-17, o			
			otential for limited bioaccum	ulation. (BCF <2000 L/kg, BMF <1)	)
12.4	ł	Mobility in soil	a to abamical reaction with w	aton to form in soluble meduat. DLI	from
		- distribution into		ater to form insoluble product - PU f not specified	Ioan
		- surface tension		not specified	
		- absorption or de	sorption	not specified	
12.5	5		nd vPvB assessments		
10	~	Not available	°C4-		
12.0	)	Other adverse ef		is Isocvanate reacts with water of th	e interface with formation of CO2 and forms a solid
					pported by surface-active agents /surfactants (e.g. liquid
				presented experience polyuria is still	
				-	
SE	CTION 13	DISPOSAL	CONSIDIRATION		
13.1	L	Waste treatment	methous		

SAFEY DATA SHEET

Waste treatment methods 13.1 All Waste must be handled in accordance with national regulations. Do not mix with household waste. This is a hazardous waste. 13.1.1 The potential risk in waste disposal. no significant risk at disposal, but empty containers/cans may contain unreacted components. 13.1.2 Disposal methods of the mixture

Uncured material to be treated as hazardous waste.

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13.1.3

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H332

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Aerosol cans with the contents remains must be disposed of as hazardous waste, eg. in a hazardous waste incinerator **Recommended cleaning agent:** PU foam cleaner for uncured foam. Cured foam can only be removed mechanically. **Recommended** waste classification 13.1.3.1 Mixture Uncured material: eg. 080409\* Cured material: eg.: 080410 Packaging 13.1.3.2 15 01 11\* 16 05 04\* 15 01 04 17 04 05

SECTIO	ON 14 TRANSPORT INFORMATION				
14.1	UN number	UN 1950			
14.2	UN proper shipping name	Aerosols, flammable			
14.3	Transport hazard class (es)	2			
14.4	Packing group				
14.5	Environmental hazards	No			
14.6	Special precautions for users	NOT APPLICABLE			
14.7	Transport in bulk according to Annex II MARPOL and IBC Code	NOT APPLICABLE			
14.8	Land transport ADR/RID				
Class/cla	ssification code	2 (5F) Gases			
Packing g	group:	-			
Safety la	bel	2.1			
Descripti	on:	UN 1950 Aerosols, flammable			
14.9	Maritime transport IMDG:				
Class/cla	ssification code	2.1			
Packing g	group:	-			
Safety La	abel	2.1			
Descripti	on:	UN 1950 Aerosols, flammable			
Ems No.:		F-D,S-U			
Marine p	ollutant	No			
14.10	Air Transport ICAO/IATA-DGR				
Class/cla	ssification code	2.1			
Packing g	Packing group:				
Descripti	on:	UN 1950 Aerosols, flammable			

#### **SECTION 15 REGULATORY INFORMATION**

Suspected of causing cancer

May cause damage to organs

Harmful if inhaled.

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 Regulation (EC) No1907/2006 of the European Parliament and of the Council of 18. December 2006 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 On classification, labelling and packaging of substances and mixtures The European Agreement Concerning the International carriage of dangerous goods by road (Agreement ADR) The stated regulatory information only indicate basic regulations described in this safety data sheet. Please note the possible NOTE: existence of additional legislation complementing these regulations. Refer to all applicable national, international and local regulations and directives 15.1.1 Additional mandatory product labelling intended for sale to the public User manual A tactile warning Gloves (in accordance with COMMISSION REGULATION (EC) No 552/2009) 15.1.2 Information according to Commission REGULATION (EC) No 552/2009 of 22 June 2009 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XVII, that must appear on the label of the product. Persons already sensitized 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 15.2 Chemical safety assessment Not carried out yet **SECTION 16 OTHER INFORMATION** Full text of H phrases used in sections 2, 3 according to Regulation EU 1272/2008 16.1

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H319	Causes serious eye irritation
H335	May cause respiratory irritation.
H315	Causes skin irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H220	Extremely flammable gas.
H302	Harmful if swallowed.
H362	May cause harm to breast-fed children
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life
16.2	Information on sources of data used in the compilation of the Safety Data Sheet
	Data of the manufacturer and vendor as stated in the Safety Data Sheets of the individual components of the mixture
	This Safety Data Sheet should be used in conjunction with the Material Data Sheet. The SDS does not replace the MDS. Information
	herein presented is based on our knowledge of the product at the time of issue and are presented in good faith.
	The user is alerted to the potential danger as resulting from the use of the product for purposes other than for which it is intended. This
	does not exempt the user from the understanding and implementation of all laws and regulations regulating their business. The
	implementation of all regulations required for handling the product is he sole responsibility of the user. These regulatory directives are
	intended to help the user in meeting their duties related to the handling of dangerous products.
	This information is not exhaustive. This does not exempt the user from their duty to make sure there are no other laws and regulations
	than those referred to herein, and relating to the use and storage of the product, this remaining solely the user's responsibility.
16.3	Changes made to the previous version of the safety data sheet
	It replaces all previous versions