

Safety Data Sheet

Subject to REGULATION of the European Parliament and Regulation EC 1907/2006 as amended by Council Directive (EU) 453/2010

Version: 1.0 EN
Creation date in EN: 20.11.2014
Revision date: -
Replacement of version ... from: all previous versions

A.M.P.E.R.E. Mousse expansive polyuréthane

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier: A.M.P.E.R.E. Mousse expansive polyuréthane**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Filler and sealant
- 1.3 Details of the supplier of the safety data sheet:**
- 1.3.1 Company specification**
A.M.P.E.R.E. SYSTEM
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95310 Saint-Ouen-l'Aumône - France
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- 1.4 Emergency telephone number :** 0344 892 0111

*SECTION 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Classification in accordance with Directive No. 1999/45/EC**
Extremely flammable, F+, R12
Carc. cat 3; R40
Harmful, Xn; R20-48/20
Irritating, Xi; R36/37/38
Sensitisation; R42/43
R64
Hazardous for the environment, R53
The full text of the R phrases is stated in Section 16 of this Safety Data Sheet.
- 2.1.2 Classification according to EU Regulation no. 1272/2008**
Aerosol 1 H222, H229
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
Skin Sens. 1 H317
Lact. H362
Aquatic Chronic 4 H413
The full text of "H-phrases" is stated in Section 16 of this Safety Data Sheet.
- Classification notes:**
Note: Classification of a mixture was based on the precautionary principle. 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, i.e. a mixture of aerosol is classified in the same hazard category as the mixture which is not in a form of aerosol.
This principle was also used in the case of classification according to Directive no. 1999/45 / EC (see section 2.1.1).
Classification of the mixture is carried out in accordance with the standpoint of the Association of the European Adhesive & Sealant Industry, FEICA, who by using ecotoxicological tests supported the classification of foams containing max. 20% of chlorinated hydrocarbons such as Aquatic Chronic 4 H413.

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2.1.3 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.

2.1.4 The most serious adverse effects on human health

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. 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 overexposure airways after a few hours. Dust, vapours and aerosols are harmful to respiratory tract.

2.1.5 The most serious adverse effects on the environment

Presents no special hazards providing disposal requirements are followed together with national or local regulations (see section 13). May cause long-term adverse effects in the aquatic environment

2.2 Label elements

2.2.1 Labelling harmonised with Directive 1999/45/EC



extremely flammable



harmful

Content: Diphenylmethanediisocyanate, isomers and homologues; alkanes, C14-17, chloro

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R64 May cause harm to breast-fed babies

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

S2 Keep out of the reach of children.

S23 Do not breathe vapour/spray

S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves.

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

S51 Use only in well-ventilated areas

S60 This material and its container must be disposed of as hazardous waste

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. Build up of explosive mixtures possible without sufficient ventilation

2.2.2 The label elements in accordance with Regulation no. (EC) no. 1272/2008



DANGER

Content: Diphenylmethanediisocyanate, isomers and homologues; alkanes, C14-17, chloro

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H332 Harmful if inhaled.

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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
 H373 May cause damage to organs through prolonged or repeated exposure
 H362 May cause harm to breast-fed children.
 H413 May cause long lasting harmful effects to aquatic life.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P251 Do not pierce or burn, even after use.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 P211 Do not spray on an open flame or other ignition source.
 P102 Keep out of reach of children.
 P261 Avoid breathing spray.
 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.
 P280 Wear protective gloves, protective clothing, and eye protection.
 P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P501 Dispose of container as hazardous waste.
 EUH204 Contains isocyanates. May produce an allergic reaction.

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.

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.

2.4 Further information

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

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

Hazardous substances:	Index No. Č. EINECS. CAS č. Registration No.	Content (% ww)	Classification	
			Classification acc. 67/548/EEC	Classification acc. (EC) No. 1272/2008
Diphenylmethanediisocyanate, isomers and homologues*	n.a. n.a. 9016-87-9 yet unassigned	30-60	Carc. kat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43	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 Skin Sens. 1 H317
alkanes, C14-17, chloro; chlorinated paraffins, C14-17	602-095-00-X 287-477-0 85535-85-9 yet unassigned	5-<20	R64-66 N, R50/53	Lact. H362 Aquatic Chronic 1 H410

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Isobutane	601-004-00-0 200-857-2 75-28-5 yet unassigned	5-15	F+ R12	Flam. Gas 1 Press. Gas H220 H280
Dimethylether	603-019-00-8 204-065-8 115-10-6 01-2119472128-37	5-10	F+ R12	Flam. Gas 1 Press. Gas H220 H280
Propane	601-003-00-5 200-827-9 74-98-6 yet unassigned	1-5	F+ R12	Flam. Gas 1 Press. Gas H220 H280

¹⁾ for classification of this substance was used classification of the substance 4,4'-methylenediphenyl diisocyanate, Index. No.:615-005-00-9 (EC)790/2009 (EC 1272/2008)

²⁾ This is not a classified harmonised substance. Classification taken from the available registration data published on www.echa.eu

³⁾ Binding classification standard of substances was added from the available registration data published on www.echa.eu.

Full text of R and H-phrases is described in Section 16 of this Safety Data Sheet

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

5.1 Extinguishing media

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- 5.1.1 Suitable extinguishing media:**
Carbon dioxide (CO₂), 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:**
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 than 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 least cool them with a water jet.
- 5.3 Advice for fire fighters:**
In case of fire, wear suitable protective equipment – respiratory/breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
- 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.
- 6.3 Reference to other sections**
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
- 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:**

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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.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container in a cool dry place. Keep away from heat sources. Avoid accumulation of static electricity. No smoking.

7.2.1 Requirements on type of material used in the packaging / container:

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

The product contains substances for which following concentration of occupational exposure limit values are set (maximum permissible exposure limit=PEL; maximum permissible concentration in the workplace air=NPK-P). Values for the Czech republic

Chemical name	Number CAS	Content (%ww)	(mg/m ³)	
			PEL	NPK-P
Dimethylether	115-10-6	5-10	1000 ¹⁾	2000 ¹⁾
Diphenylmethanediisocyanate, isomers and homologues	101-68-8	40-50	0,05 ^{1),2)}	0,1 ^{1),2)}

The lists valid during the making were used as basis.

Information relevant in the country of distribution to be added.

¹⁾ Czech concentration limits,

²⁾ it is recommended to apply to PMDI, CAS: 9016-87-9

8.1.2 Values DNEL and PNEC

Mixture values are not available.

8.1.2.1 Values DNEL for the mixture components

Components with DNEL

CAS: 101-68-8: 4,4'-methylenediphenyl diisocyanate:

Workers:

Acute / short term exposure– Systemic effects (Dermal): 50 mg/kg bw/day

Acute / short term exposure- Systemic effects (Inhalation): 0.1 mg/ m³

Acute / short term exposure– Local effects (Dermal): 28.7 mg/cm²

Acute / short term exposure– Local effects (Inhalation): 0.1 mg/ m³

Long Term - Systemic effects (Inhalation): 0.05 mg/ m³

Long Term - Systemic effects (Dermal): Not applicable.

Long Term – Local effects (Inhalation): 0.05 mg/ m³

Long Term – Local effects (Dermal): Not applicable.

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Consumer:

Acute / short term exposure- Systemic effects (Dermal): 25 mg/kg bw/day

Acute / short term exposure- Systemic effects (Inhalation): 0.05 mg/ m³

Acute / short term exposure- Systemic effects (Oral): 20 mg/kg bw/day

Acute / short term exposure- Local effects (Dermal): 17.2 mg/cm²

Acute / short term exposure- Local effects (Inhalation): 0.05 mg/ m³

Long Term - Systemic effects (Inhalation): 0.025 mg/ m³

Long Term - Systemic effects (Dermal): Not applicable.

Long Term - Systemic effects (Oral): Not applicable.

Long Term - Local effects (Inhalation): 0.025 mg/ m³

Long Term - Local effects (Dermal): Not applicable.

Long Term - Local effects (Oral): Not applicable.

CAS 85535-85-9: alkanes, C14-17, chloro

Industry - Long Term - Systemic effects (Inhalation): 6,7 mg/ m³

Industry - Long Term - Systemic effects (Dermal): 47,9 mg/kg bw/day

Consumer. - Long Term - Systemic effects (Inhalation):: 2,0 mg/m³

Consumer. - Long Term - Systemic effects (Dermal): 28,75 mg/kg bw/day

Consumer. - Long Term - Systemic effects (Oral): 0,58 mg/kg bw/day

Components with PNEC Values

CAS 85535-85-9: alkanes, C14-17, chloro

1 µg/l Fresh water

0.2 µg/l Marine water

80 mg/l Micro-organisms (sewage treatment plant)

5 mg/kg Wet Sediment (Fresh water)

1 mg/kg Wet Sediment (Marine water)

Terrestrial Compartment 10.5 mg/kg Wet (Soil)

Atmospheric Compartment No data.

CAS: 101-68-8: 4,4'-methylendiphenyl diisocyanate:

Fresh water: 1 mg/l

Marine water: 0,1 mg/l

sporadic release: 10 mg/l

Sewage Treatment Plant: 1 mg/l

8.1.1 Recommended measurements methods in the work environment

Gas chromatography

8.1.2 The Values of biological exposure tests (BET)

Not listed

8.1.3 Recommended procedures for determining biological exposure tests:

Not listed

8.1.4 Exposure scenarios

Currently not handled

8.2 Exposure controls

8.2.1 Appropriate engineering controls

No special equipment is required provided that the product is handled in accordance with the general principles of hygiene and public safety. It is recommended that the product is used in well-ventilated areas.

8.2.2 Individual protection measures, such as personal protective equipment

When selecting protective equipment, the employer must ensure that relevant standards are met. To avoid any doubts, a manufacturer's delivery certificate should be available. It must be ensured that correct protective equipment is available to potential users.

Regulations for personal protective equipment (Czech Rep.): CSN EN 166, CSN EN 149, CSN EN 340, ČSN EN 374-1

8.2.2.1 A General hygienic and protective measures

While working with the product Do not eat, drink or smoke. Avoid contact with eyes and skin. When you stop working with the product wash your hands. Pregnant women should avoid inhalation and skin

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contact.

8.2.2.2 Respiratory protection

Under standard usage not necessary, however a prolonged stay in poorly ventilated areas exceeding the use of appropriate respiratory protective equipment – (from gas and combined filters) is essential.

8.2.2.3 Hand protection

Suitable materials for safety gloves; EN 374 :

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$

Recommendation: contaminated gloves should be disposed of.

8.2.2.4 Eye protection

Protective glasses

8.2.2.5 Protecting skin (the whole body)

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 Environmental exposure controls

Not necessary when used as required, avoid entering into surface waterways and sewers.

*SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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: $< 0\text{ }^{\circ}\text{C}$, ISO 3016
Boiling point/boiling range	Not specified
Flash point	MDI: $> 200\text{ }^{\circ}\text{C}$, 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	$< 0,7\text{ MPa}$ (at $20\text{ }^{\circ}\text{C}$) - liquefied gas; $< 0,0001\text{ hPa}$ - MDI
Vapour density	unknown
Relative density	$1,157\text{ g/cm}^3$ (at $20\text{ }^{\circ}\text{C}$) – without the propulsion gas $0,940\text{ g/cm}^3$ (at $20\text{ }^{\circ}\text{C}$) – 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	$226\text{ }^{\circ}\text{C}$ at 1 013 hPa (dimethylether)
Decomposition temperature	Not specified
Viscosity	For the mixture not known MDI: $\geq 200\text{ mPa.s}$ at $20\text{ }^{\circ}\text{C}$, 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)	0,203 kg/kg of product
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SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

The product under standard conditions of use is stable and does not degrade.

10.2 Chemical stability

The product under standard conditions of use is stable and does not degrade.

10.3 Possibility of hazardous reactions

Reacts with substances containing active hydrogen, including water - and / or air humidity, carbon dioxide is produced and increases the pressure in closed containers. Also strong acids and strong 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.: Hydrogen peroxide, nitric acid ...

10.6 Hazardous decomposition products

Under standard usage does not occur.

Incomplete combustion creates smoke and toxic gases (eg. CO, NO, HCN), various hydrocarbons, aldehydes and soot. Inhalation is hazardous.

10.7 Further information

10.7.1 Potentially dangerous exothermic reaction

in contact with water, the temperature and pressure increases (inside the can)

10.7.2 Changes in physical properties effecting stability and safety of the mixture

If Increased pressure and temperature (in a can =inside of the packaging) there is a risk of an aerosol can bursting.

10.7.3 Hazardous degradation products when in contact with water

When sprayed, reacts with water and curing into PU foam.

*SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixture

For mixture (content of cartridge) are not relevant toxicological data available. The mixture was evaluated by calculation methods

Acute toxicity:	Data not available
Skin corrosion/ irritation:	Data not available
Serious eye damage/irritation:	Data not available.
Skin sensitisation/ Respiratory sensitisation:	Data not available
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Data not available
Reproductive toxicity	Data not available
STOT-single exposure:	Data not available
STOT-repeated exposure:	Data not available
Aspiration hazard:	Data not available

11.2 Experience from human exposure

Diphenylmethanediisocyanate:

Special features / effects: There is a risk of concentration independent irritation effect on eyes, nose, throat and respiratory track if over exposed. There can be late manifestations of problems and hypersensitivity development (difficulty in breathing, coughing, asthma). Hypersensitive individuals may experience reactions at very low concentrations of isocyanate, also still below the values NPK-P. If prolonged contact with the skin, there are possible effects of dryness and irritation.

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11.3 Further information:

Contradiction between the data for components of the product and the actual effect on humans. The mixture is evaluated by conventional computational methods, in accordance with Directive no. 1999/45/EC

*SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

For mixture (content of cartridge) are not relevant toxicological data available.

12.2 Persistence and degradability

Biodegradability:

Diphenylmethanediisocyanate

Type of test: aerobic

The inoculum: activated sludge

Biodegradation: 0%, 28 d, ie. is not potentially degradable

Method: OECD 302 C for testing

Pursuant the test results of biodegradability this product is not readily biodegradable.

alkanes, C14-17, chloro

Concentrations in the atmosphere are likely to be very small due to low volatility. Estimated atmospheric half life is 1 - 2 days. Biodegradation in soil: Studies conducted on C14.5 & C15.4 (average C chain length) with 43.5% & 50% chlorination showed 57% and 51% degradation of the test substance after 36 hours. Biodegradation in water and sediments: Simulation tests conducted on two C16 chlorinated paraffins (containing 35% Cl2 & 58% Cl2) gave a half-life (DT50) of 12 days and 58 days in freshwater sediment respectively

12.3 Bio-accumulative potential

Diphenylmethanediisocyanate

Bioconcentration factor (BCF): < 14

Type: Cyprinus carpio (carp)

duration of exposure: 42 d

Concentration: 0,2 mg/l

Method: OECD 305 C for testing

Significantly does not accumulate in organisms.

Substance hydrolyzes in water rapidly.

Study of the hydrolysis products.

alkanes, C14-17, chloro

The product has potential for limited bioaccumulation. (BCF <2000 L/kg, BMF <1)

12.4 Mobility in soil

Is very limited due to chemical reaction with water to form insoluble product - PU foam

- distribution into the environment not specified

- surface tension not specified

- absorption or desorption not specified

12.5 Results of PBT and vPvB assessments

Not available

12.6 Other adverse effects

Avoid (Do not allow) propellants entering drains. May cause long-term adverse effects in the aquatic environment.

Isocyanate reacts with water at the interface with formation of CO2 and forms a solid insoluble substance with high melting point (polyurea). This reaction is strongly supported by surface-active agents /surfactants (e.g. liquid soaps) or water-soluble solvents. As per so far presented experience polyuria is still inert and non-degradable.

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SECTION 13 DISPOSAL CONSIDERATION

13.1 Waste treatment methods

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.

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.

13.1.3 Recommended waste classification

13.1.3.1 Mixture

Uncured material: eg. 080409*

Cured material: eg.: 080410

13.1.3.2 Packaging

15 01 11*

16 05 05*

15 01 04

17 04 05

SECTION 14 TRANSPORT INFORMATION

14.1	UN number	OSN 1950
14.2	UN proper shipping name	Aerosols, flammable
14.3	TRANSPORT HAZARD CLASS (es)	2.1
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 73/78 and IBC Code	NOT APPLICABLE
14.8	LAND transport ADR/RID	
	Class/classification code	2 (5F) Gases
	Packing group:	-
	Safety label	2.1
	Description:	UN 1950 Aerosols, flammable
14.9	Maritime transport IMDG:	
	Class/classification code	2.1
	Packing group:	-
	Safety Label	2.1
	Description:	UN 1950 Aerosols, flammable
	Ems No.:	F-D,S-U
	Marine pollutant	No
14.10	AIR TRANSPORT ICAO/IATA-DGR	
	Class/classification code	2.1
	Packing group:	-
	Description:	UN 1950 Aerosols, flammable

SECTION 15 REGULATORY INFORMATION

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15.1 Regulations relating to Safety, health and environment / specific legislative regulations regarding the substance or mixture.

This product is classified as hazardous.

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

15.3 Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations, as amended by later regulations, Directive 76/796 EEC on the approximation of the laws. Regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations.

The European Agreement Concerning the International carriage of dangerous goods by road (Agreement ADR)

NOTE: The stated regulatory information only indicate basic regulations described in this safety data sheet. Please note the possible existence of additional legislation complementing these regulations. Refer to all applicable national, international and local regulations and directives.

*SECTION 16 OTHER INFORMATION

16.1 Full text of R and H phrases used in sections 2, 3 and 15 and meaning of classification abbreviations according to Regulation EU 1272/2008

R12	Extremely flammable
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R22	Harmful if swallowed
R36	Irritating to eyes.
R64	May cause harm to breast-fed babies

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R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R50 May cause long-term adverse effects in the aquatic environment
R53 May cause long-term adverse effects in the aquatic environment
H351 Suspected of causing cancer
H332 Harmful if inhaled.
H373 May cause damage to organs
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

16.3 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 the 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.

16.4 Changes made to the previous version of the safety data sheet

Significant changes have been made in sections marked "**"