illbruck

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.09.2013

Version number 2

Revision: 22.11.2011

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ance or mixture	
rective 67/548/EEC or Directive 199	9/45/EC
nalation. Limited evidence of a carcing ge to health by prolonged exposure the	
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· 2.2 Label elements

- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- \cdot Code letter and hazard designation of product:



Xn Harmful F+ Extremely flammable

- Hazard-determining components of labelling: diphenylmethanediisocyanate, isomeres and homologues
- · Risk phrases:
 - 12 Extremely flammable.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

· Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.
- · Special labelling of certain preparations:

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.

- · Classification in accordance with Directive 75/324/EEC: Extremely flammable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Active substance with propellant

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Dangerous componer	its:	
CAS: 9016-87-9 EINECS: 202-966-0	diphenylmethanediisocyanate,isomeres and homologues Xn R20-40-48/20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3 ♦ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	30- <50
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 1244733-77-4 EC number: 911-815-4		10- <20
	Acute Tox. 4, H302	
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether F+ R12	5- <109
	🚸 Flam. Gas 1, H220; 🔶 Press. Gas, H280	
CAS: 75-28-5	isobutane	1- <5%
EINECS: 200-857-2	6 F+ R12	
	🚸 Flam. Gas 1, H220; 🔶 Press. Gas, H280	
CAS: 74-98-6	propane	1- <5%
EINECS: 200-827-9	🔥 F+ R12	
	🚸 Flam. Gas 1, H220; 🔶 Press. Gas, H280	
humidity: Carbon dioxide	wing substances are formed and released by a reaction wit isted risk phrases refer to section 16.	h atmosphe:
SECTION 4: First a		
4.1 Description of firs General information:	t aid measures Take affected persons out of danger area and lay down.	
After inhalation:		
Supply fresh air and to	be sure call for a doctor.	
	ness place patient stably in side position for transportation.	
Immediately wash with	water and soap and rinse thoroughly.	

If symptoms persist consult doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- \cdot After swallowing: Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- · Information for doctor: No further relevant information available.
- · Hazards No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures 5.1 Extinguishing media · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · For safety reasons unsuitable extinguishing agents: Water with full jet · 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO) Carbon dioxide Nitrogen oxides (NOx) Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hvdrogen cvanide (HCN) 5.3 Advice for firefighters • Protective equipment: Wear self-contained respiratory protective device. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Not required. Wear protective equipment. Keep unprotected persons away. • 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. SECTION 7: Handling and storage · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. · Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurized containers. · Information about storage in one common storage facility: Store away from water. · Further information about storage conditions: Keep container tightly sealed. Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. (Contd. on page 5) - GB

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• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.

· Respiratory protection:

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.

Protection of hands:



Protective gloves

· Material of gloves

PE gloves

Recommended thickness of the material: ≥ 0.02 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Natural rubber, NR
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: PE gloves

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· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

· 9.1 Information on basic physical and	chemical properties
· General Information	E E E E E E E
· Appearance:	
Form:	Aerosol
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Not applicable, as aerosol.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	-97 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosivair/vapour mixtures are possible.
· Explosion limits:	
Lower:	3.0 Vol %
Upper:	18.6 Vol %
· Vapour pressure at 20 °C:	5200 hPa
· Density at 20 ℃:	0.99 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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Solvent content:	
VOC (EU)	152.8 g/l
VOC (EC)	15.40 %
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

 Oral
 LD50
 > 10000 mg/kg (rat)

 Dermal
 LD50
 > 10000 mg/kg (rabbit)

 Inhelation
 LO50 (4 h)
 > 0.400 mg/kg (rabbit)

Inhalative LC50/4 h ca. 0.493 mg/L (rat)

· Primary irritant effect:

- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	
EC50/24 h > 1000 mg/L (daphnia magna)	
LC0/96 h > 1000 mg/L (brachydanio rerio)	
NOEC/21 d > 10 mg/L (daphnia magna)	
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 12.2 Persistence and degradability No further Other information: The product is difficultly biod 12.3 Bioaccumulative potential No further rele 12.4 Mobility in soil No further relevant information: Ecotoxical effects: Other information: This product contains no substances in Anni depleting substances 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Other adverse effects No further relevant 	degradable. vant information available. tion available. ex I to Directive EC 2037/2000 concerning ozone
SECTION 13: Disposal considerations	
 13.1 Waste treatment methods Recommendation 	ld garbage. Do not allow product to reach sewage
· European waste catalogue	
16 05 05 gases in pressure containers other that	an those mentioned in 16 05 04
 15 01 04 metallic packaging Uncleaned packaging: Recommendation: Disposal must be made acc 	ording to official regulations.
SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
 · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
• 14.3 Transport hazard class(es)	
- ADR	
· Class · Label	2 5F Gases. 2.1
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· IMDG, IATA		
· Class	2.1	
· Label	2.1	
 · 14.4 Packing group · ADR, IMDG, IATA 	Void	
 · 14.5 Environmental hazards: · Marine pollutant: 	No	
· 14.6 Special precautions for user	Warning: Gases.	
 Danger code (Kemler): EMS Number: 	- F-D,S-U	
 14.7 Transport in bulk according to Anno MARPOL73/78 and the IBC Code 	ex II of Not applicable.	
· Transport/Additional information:		
· ADR		
 Limited quantities (LQ) 	1L	
 Transport category 	2	
 Tunnel restriction code 	D	

SECTION 15: Regulatory information

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

Directive 1999/45/EC. "CLP" Regulation (EC) No 1272/2008 (OJ L 353, 31.12.2008, p.1). "CHIP" SI 2009 No.716. "REACH" Regulation (EC) No 1907/2006 (O LL 396, 30, 12, 2006, p.1, with subseq

"REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments). "Aerosol" Regulation (EC) No 75/324.

· National regulations:

- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
 Employment restrictions concerning pregnant and lactating women must be observed.
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Relevant	phrases
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H315	May cause an allergic skin reaction.
H319	
	Causes serious eye irritation. Harmful if inhaled.
H332 H334	
H335	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
R12	Extremely flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R36/37/3	8 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.
* Data co	ompared to the previous version altered.