



Page 1 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

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

Sealant

Sector of use [SU]:

SU19 - Building and construction work

Chemical product category [PC]:

PC 1 - Adhesives, sealants

Process category [PROC]:

PROC12 - Use of blowing agents in manufacture of foam

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC99 - Not required.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet



BTI Befestigungstechnik GmbH & Co. KG, Salzstr. 51, 74653 Ingelfingen, Germany

Phone:+49 7940 141 256, Fax:+49 7940 141 9256

Stefan.Haug@bti.de, www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H332-Harmful if inhaled.

Eye Irrit. 2 H319-Causes serious eye irritation.





Page 2 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing
_		difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Carc.	2	H351-Suspected of causing cancer.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.
STOT RE	2	H373-May cause damage to organs through prolonged or
		repeated exposure by inhalation (respiratory system).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H332-Harmful if inhaled. 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. H351-Suspected of causing cancer. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

P201-Obtain special instructions before use. 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 spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

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

EUH204-Contains isocyanates. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. Diphenylmethanediisocyanate, isomeres and homologues

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 < 0.1 %).





Page 3 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

SECTION 3: Composition/information on ingredients

PU-foam

3.1 Substance

n.a.

3.2 Mixture

3.2 Whature	
Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	9016-87-9
content %	40-50
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP)	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)

Tris(2-chlorisopropyl)phosphate	
Registration number (REACH)	01-2119486772-26-XXXX
Index	
EINECS, ELINCS, NLP	911-815-4 (REACH-IT List-No.)
CAS	(13674-84-5)
content %	10-20
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	

Dimethyl ether	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP	204-065-8
CAS	115-10-6
content %	5-15
Classification according to Regulation (EC) 1272/2008	Flam. Gas 1, H220
(CLP)	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures





Page 4 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Medical supervision necessary due to possibility of delayed reaction.

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Coughing

Irritation of the respiratory tract

Irritant to mucosa of the nose and throat

Respiratory distress

Oedema of the lungs

Dizziness

Headaches

Drying of the skin.

Dermatitis (skin inflammation)

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Oxides of phosphorus

Hydrocyanic acid (hydrogen cyanide)

Danger of bursting (explosion) when heated

Explosive vapour/air mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.





Page 5 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Allow product to harden.

Pick up mechanically and dispose of according to Section 13.

Recommended cleaner:

Acetone

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

If applicable, suction measures at the workstation or on the processing machine necessary.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Take precautions against electrostatic charges.

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.





Page 6 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Observe special regulations for aerosols!

Observe special storage conditions.

Do not store with bases.

Do not store with acids.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well-ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chem	ical Name	Diphenylmeth	Diphenylmethanediisocyanate, isomeres and homologues			
WEL-TW	A: 0,02 mg/m3 ((Isocyanates,	WEL-STEL: 0,07 mg/s	m3 (Isocyanates,		
all (as -NO	l (as -NCO)) all (as -NCO))					
Monitoring procedures:						
BMGV:	1 μmol urinary di	amine/mol creati	inine in urine	Other information:	Sen	(Isocyanates,
(Isocyanat	e, post task)			all (as -NCO))		

©® Chemical Name	Dimethyl ethe	er				Content %:5- 15
WEL-TWA: 400 ppm (766	•	WEL-STEL:	500 ppm	(958 mg/m3)		
(WEL), 1000 ppm (1920 mg	/m3) (EU)	(WEL)				
Monitoring procedures: - Compur - KITA-123 S (549 129)						
BMGV:				Other information	:	

©B Chemical Name	Isobutane			Content %:
WEL-TWA: 1000 ppm (EX	X) (ACGIH)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-113 Sl	B(C) (549 368)	
BMGV:			Other information:	

© Chemical Name	Propane			Content %:
WEL-TWA: 1000 ppm (A	CGIH)	WEL-STEL:		
Monitoring procedures: - Compur - KITA-125 SA (549 954)				
BMGV:		Other information:		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Tris(2-chlorisopropyl)phosphate





Page 7 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - sediment, marine		PNEC	1,34	mg/kg dw	
	Environment - freshwater		PNEC	0,64	mg/l	
	Environment - soil		PNEC	1,7	mg/kg dw	
	Environment - sediment		PNEC	13,4	mg/kg dw	
	Environment - sewage treatment plant		PNEC	7,84	mg/l	
	Environment - marine		PNEC	0,064	mg/l	
Industrial	Human - dermal	Long term, systemic effects	DNEL	2,08	mg/kg bw/day	
Industrial	Human - inhalation	Short term, systemic effects	DNEL	22,4	mg/m3	
Industrial	Human - inhalation	Long term, systemic effects	DNEL	5,28	mg/m3	
Industrial	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,46	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	11,2	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,04	mg/kg bw/d	
Consumer	Human - dermal	Short term, systemic effects	DNEL	4	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,52	mg/kg bw/d	

Dimethyl ether						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,155	mg/l	
	freshwater					
	Environment -		PNEC	0,681	mg/kg	
	sediment, freshwater					
	Environment - soil		PNEC	0,045	mg/kg	
	Environment -		PNEC	160	mg/l	
	sewage treatment					
	plant					
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water,		PNEC	1,549	mg/l	
	sporadic					
	(intermittent) release					





Page 8 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

	Environment - sediment, marine		PNEC	0,069	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	471	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1894	mg/m3	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Polyethylene

(LDPE)

Minimum layer thickness in mm:

0.025

Permeation time (penetration time) in minutes:

10

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)





Page 9 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid. Colour: According to specification

Odour: Characteristic Odour threshold: Not determined Not determined pH-value: Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Flash point: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined

Vapour density (air = 1): >1

Density: 0,95 g/cm3 (20°C) Bulk density: Not determined Organic solvents Solubility(ies): Insoluble Water solubility: Not determined Partition coefficient (n-octanol/water): Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined

Explosive properties: Product is not explosive. When using: development of

explosive vapour/air mixture possible.

Oxidising properties: No

9.2 Other information





Page 10 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined

Solvents content: 20 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Polymerisation possible with:

Amines

Alcohols

Bases

Acids

Water

10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

INSULATION ADHESIVE B1 800 ML									
Art.: 9030859									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral	ATE	>2000	mg/kg			calculated			
route:						value			
Acute toxicity, by						n.d.a.			
dermal route:									
Acute toxicity, by	ATE	3,55	mg/l/4h			calculated			
inhalation:						value,			
						Aerosol			
Acute toxicity, by	ATE	>20	mg/l/4h			calculated			
inhalation:						value,			
						Vapours			
Skin corrosion/irritation:						n.d.a.			





Page 11 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Serious eye			n.d.a.
damage/irritation:			
Respiratory or skin			n.d.a.
sensitisation:			
Germ cell mutagenicity:			n.d.a.
Carcinogenicity:			n.d.a.
Reproductive toxicity:			n.d.a.
Specific target organ			n.d.a.
toxicity - single	i		
exposure (STOT-SE):			
Specific target organ			n.d.a.
toxicity - repeated	i		
exposure (STOT-RE):	i		
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Diphenylmethanediisocy Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
·	nt			ð		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classification
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Irritant, Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitising, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative





Page 12 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Carcinogenicity:				Rat	OECD 453	Aerosol.
Caremogemeny:					(Combined	Limited
					Chronic	evidence of
					Toxicity/Carcinoge	a
					nicity Studies)	carcinogenic
					merty Studies)	effect.
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414	Aerosol.
Reproductive toxicity.	NOALL		IIIg/III3	Rat	(Prenatal	Negative
					Developmental	regative
					Toxicity Study)	
Specific target organ	LOAEL	1		Rat	OECD 453	Aerosol,
toxicity - repeated	LOALL	1		Kat	(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
exposure (STOT-RE):						conclusion
					Toxicity/Carcinoge	
G :C	NOAFI	0.2		D.	nicity Studies)	۸ 1
Specific target organ	NOAEL	0,2		Rat	OECD 453	Aerosol,
toxicity - repeated					(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
					Toxicity/Carcinoge	
					nicity Studies)	
Aspiration hazard:						Negative
Specific target organ						Target
toxicity - single						organ(s):
exposure (STOT-SE),						respiratory
inhalative:						system, May
						cause
						respiratory
						irritation.
Specific target organ						Target
toxicity - repeated						organ(s):
exposure (STOT-RE),						respiratory
inhalat.:						system,
						Positive

Tris(2-chlorisopropyl)phosphate								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	632	mg/kg	Rat				
route:								
Acute toxicity, by oral	LD50	>500-	mg/kg	Rat	Regulation (EC)			
route:		<2000			440/2008 B.1			
					(ACUTE ORAL			
					TOXICITY)			
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			
Acute toxicity, by	LC50	>7	mg/l/4h	Rat	OECD 403 (Acute	Dust, Mist		
inhalation:					Inhalation			
					Toxicity)			





Page 13 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Mouse	in vivo	Negative
Carcinogenicity:						No indications of such an effect.
Carcinogenicity:	LOAEL	52	mg/kg bw/d			
Reproductive toxicity:	LOAEL	99	mg/kg/			
Reproductive toxicity (Developmental toxicity):	NOEL	571	mg/kg bw/d	Rat		
Specific target organ toxicity - single exposure (STOT-SE):						No
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	>20	ppm	Rat		13w
Aspiration hazard:						Not to be expected
Symptoms:						ataxia, cramps

Dimethyl ether						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	164	mg/l/4h	Rat		
inhalation:						
Acute toxicity, by	LC50	308	mg/l/4h	Rat		
inhalation:						
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	





Page 14 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Carcinogenicity: Reproductive toxicity:	No.AEG	4710		OECD 477 (Genetic Toxicology - Sex- Linked Recessive Lethal Test in Drosophilia melanogaster)	Negative Negative Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	47106	Rat	OECD 452 (Chronic Toxicity Studies)	Negative(2 a)
Symptoms:					unconsciousn ess, headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite
Symptoms:					unconsciousn ess, headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestin al disturbances, respiratory distress, circulatory collapse

Isobutane								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by	LC50	658	mg/l/4h	Rat				
inhalation:								
Serious eye				Rabbit		Not irritant		
damage/irritation:								
Germ cell mutagenicity:					OECD 471	Negative		
					(Bacterial Reverse			
					Mutation Test)			





Page 15 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Symptoms:			unconsciousn
			ess,
			frostbite, headaches,
			headaches,
			cramps,
			dizziness,
			nausea and
			vomiting.

Propane						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Symptoms:						breathing difficulties, unconscioust ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

INSULATION ADHESIVE B1 800 ML										
Art.: 9030859										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to							n.d.a.			
fish:										
12.1. Toxicity to							n.d.a.			
daphnia:										





Page 16 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

12.1. Toxicity to					n.d.a.
algae:					
12.2. Persistence					Does not
and degradability:					degrade
					ozone. With
					water at the
					interface,
					transforms
					slowly with
					formation of
					CO2 into a
					firm,
					insoluble
					reaction
					product with
					a high
					melting
					point
					(polycarbami
					de).
					According
					to
					experience
					available to
					date,
					polycarbami
					de is inert
					and non-
					degradable.
					Mechanical
					precipitation
					possible.
12.3.					n.d.a.
Bioaccumulative					
potential:					
12.4. Mobility in					n.d.a.
soil:					
12.5. Results of					n.d.a.
PBT and vPvB					
assessment					
12.6. Other					n.d.a.
adverse effects:					
Other information:	AOX	17,65	%		
Other information:					DOC-
					elimination
					degree(comp
					lexing
					organic
					substance)>=
					80%/28d:
					n.a.





Page 17 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

12.1. Toxicity to fish: 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.2. Persistence and degradability: 12.3. 12.	Diphenylmethanediisocyanate, isomeres and homologues							
fish: Comparison Compariso	Toxicity / effect		Time	Value	Unit	Organism		Notes
12.1. Toxicity to daphnia: EC50 24h >1000 mg/l Daphnia magna Dictor 202 (Daphnia sp. Acute Immobilisatio in Test)	12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	
12.1. Toxicity to daphnia: EC50 24h >1000 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	fish:					rerio	(Fish, Acute	
daphnia: Caphnia Caph							Toxicity Test)	
daphnia: Caphnia Caph	12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	
12.1. Toxicity to daphnia: EL NOEC/NO EL S10 mg/l Daphnia n Test) DECD 202 (Daphnia sp. Acute Immobilisatio n Test) DECD 202 (Daphnia sp. Acute Immobilisatio n Test) DECD 203 DECD 204 DECD 205 DECD 2	daphnia:					magna	(Daphnia sp.	
12.1. Toxicity to daphnia: NOEC/NO 21d >10 mg/l Daphnia OECD 202 (Daphnia sp. Acute Immobilisatio n Test)								
12.1. Toxicity to daphnia: NOEC/NO EL 21d >10 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immobilisatio n Test)							Immobilisatio	
daphnia: EL							n Test)	
daphnia: EL	12.1. Toxicity to	NOEC/NO	21d	>10	mg/l	Daphnia	OECD 202	
12.1. Toxicity to algae: ErC50 72h >1640 mg/l Scenedesmus subspicatus CECD 201 (Alga, Growth Inhibition Test)		EL				magna	(Daphnia sp.	
12.1. Toxicity to algae: ErC50 72h >1640 mg/l Scenedesmus subspicatus Scenedesmus subspicatus OECD 201 (Alga, Growth Inhibition Test)	•							
12.1. Toxicity to algae: ErC50 72h >1640 mg/l Scenedesmus subspicatus CECD 201 (Alga, Growth Inhibition Test)							Immobilisatio	
12.1. Toxicity to algae: ErC50 72h >1640 mg/l Scenedesmus subspicatus CECD 201 (Alga, Growth Inhibition Test)							n Test)	
algae: 12.2. Persistence and degradability: 12.3. BCF 42d <14 Cyprinus caprio 12.5. Results of PBT and vPvB assessment Toxicity to bacteria: 12.5. Results of PBT and vPvB assessment Toxicity to annelids: 12.6. Not readily hinhibition Test (II) 12.7. Results of PBT and vPvB assessment Toxicity to annelids: 12.8. Results of PBT and vPvB assessment Toxicity to annelids: 12.9. Value of VPVB annelids: 12.10. Value of VPVB annelids: 12.10	12.1. Toxicity to	ErC50	72h	>1640	mg/l	Scenedesmus		
12.2. Persistence and degradability: 28d 0 % activated sludge Growth Inhibition Test)					Ü	subspicatus	(Alga,	
12.2. Persistence and degradability: 28d 0 % activated sludge (Inherent Biodegradabil ity - Modified MITI Test (II)) biodegradabil e e						1		
12.2. Persistence and degradability: 28d 0 % activated sludge Sludge OECD 302 C (Inherent Biodegradabil e Sludge Mittle Test (II)) 12.3. BCF 42d <14 Cyprinus (Bioconcentra tion - Flow-Through Fish Test) 12.5. Results of PBT and vPvB assessment Toxicity to bacteria: 12.5. Results of PBT and vPvB assessment Toxicity to bacteria: EC50 3h >100 mg/l activated sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) 12.5. Results of PBT and vPvB assessment Toxicity to bacteria: EC50 3h >100 mg/l activated Sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) 12.5. Results of PBT and vPvB assessment EC50 3h >100 mg/l activated Sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) EC50 EL Eumbricus terrestris OECD 207 (Earthworm, Acute Toxicity Earthworm, Ac							Inhibition	
and degradability: Sludge Composition							Test)	
and degradability: Sludge Composition	12.2. Persistence		28d	0	%	activated	OECD 302 C	Not readily
12.3. BCF 42d <14 Cyprinus Cilipton Cilip	and degradability:					sludge	(Inherent	biodegradabl
12.3. BCF 42d <14 Cyprinus caprio GECD 305 (Bioconcentra tion - Flow-through Fish Test) Negative							Biodegradabil	_
12.3. BCF 42d <14 Cyprinus caprio GECD 305 (Bioconcentration - Flow-Through Fish Test) Negative								
12.3. BCF 42d <14 Cyprinus caprio OECD 305 (Bioconcentra tion - Flow-Through Fish Test) No significant biodegradati on is expected.								
Bioaccumulative potential: Caprio							(II))	
potential: Description De	12.3.	BCF	42d	<14		Cyprinus	OECD 305	No
potential: Description De	Bioaccumulative					caprio	(Bioconcentra	significant
12.5. Results of PBT and vPvB assessment Toxicity to bacteria: Description Descr	potential:						tion - Flow-	biodegradati
12.5. Results of PBT and vPvB assessment Toxicity to bacteria: Description Descr							Through Fish	on is
12.5. Results of PBT and vPvB assessment Toxicity to bacteria: EC50 3h >100 mg/l activated sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) Toxicity to annelids: Negative Negative Negative OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) Toxicity to annelids: NOEC/NO EL NOEC/NO 14d >1000 mg/kg Lumbricus terrestris (Earthworm, Acute Toxicity								expected.
assessment Toxicity to bacteria: EC50 Sh Since the serior of the ser	12.5. Results of							
Toxicity to bacteria: EC50	PBT and vPvB							
bacteria: bacteria: sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus terrestris (Earthworm, Acute Toxicity Toxicity Carbon Ca	assessment							
Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) Toxicity to annelids: NOEC/NO EL NOEC/NO EL NOEC/NO EL NOEC/NO Ammonium Oxidation) Toxicity to annelids: NOEC/NO EL NOEC/NO Acute Toxicity	Toxicity to	EC50	3h	>100	mg/l	activated	OECD 209	
Respiration Inhibition Test (Carbon and Ammonium Oxidation)) Toxicity to annelids: BL Respiration Inhibition Test (Carbon and Ammonium Oxidation) Oxidation)) CECD 207 (Earthworm, Acute Toxicity	bacteria:					sludge	(Activated	
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus (Earthworm, Acute Toxicity Toxicity Toxicity Carbon Carbon							Sludge,	
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus (Earthworm, Acute Toxicity Toxicity Toxicity Carbon and Ammonium Oxidation))							Respiration	
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus (Earthworm, Acute Toxicity							Inhibition	
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus (Earthworm, Acute Toxicity							Test (Carbon	
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus CECD 207 (Earthworm, Acute Toxicity Toxicity CECD 207 (Earthworm, Acute Toxicity (Earthworm, Acute Toxici								
Toxicity to annelids: NOEC/NO 14d >1000 mg/kg Lumbricus terrestris EL (Earthworm, Acute Toxicity)							Ammonium	
annelids: EL terrestris (Earthworm, Acute Toxicity							Oxidation))	
annelids: EL terrestris (Earthworm, Acute Toxicity	Toxicity to	NOEC/NO	14d	>1000	mg/kg	Lumbricus	OECD 207	
Toxicity		EL				terrestris	(Earthworm,	
							Acute	
Toota							Toxicity	
							Tests)	

Tris(2-chlorisopropyl)phosphate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes





Page 18 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

	T =		1		T		
12.1. Toxicity to fish:	LC50	96h	51	mg/l	Pimephales promelas		
12.1. Toxicity to	LC50	96h	54,2	mg/l	Brachydanio		
fish:		7	,=	1118/1	rerio		
12.1. Toxicity to	LC50	96h	56,2	mg/l	10110		
fish:	Leso	7011	30,2	IIIg/1			
12.1. Toxicity to	EC50	48h	131	mg/l	Daphnia		
daphnia:	LC30	7011	131	IIIg/1	magna		
12.1. Toxicity to	NOEC/NO		32	mg/l	Daphnia		
daphnia:	EL EL		32	IIIg/1	_		
12.1. Toxicity to	NOEC/NO	21d	32	mg/l	magna Daphnia		
		210	32	IIIg/I	_		
daphnia:	EL NOEC/NO	21.1	22	/1	magna	OECD 202	
12.1. Toxicity to	NOEC/NO	21d	32	mg/l	Daphnia	OECD 202	
daphnia:	EL				magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	82	mg/l			freshwater
algae:							
12.1. Toxicity to		72h	82	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence						,	Not readily
and degradability:							biodegradabl
							e
12.2. Persistence		28d	13	%	activated		Not readily
and degradability:		200	10	, ,	sludge		biodegradabl
una degradaemity.					Staage		e
12.2. Persistence		28d	14	%			Not readily
and degradability:		200	17	/0			biodegradabl
and degradability.							_
12.3.	BCF		0,8-				e
Bioaccumulative	BCF						
			<14				
potential:	DOE	10.1	0.0		G :	OEGD 205	
12.3.	BCF	42d	0,8-		Cyprinus	OECD 305	
Bioaccumulative			2,8		caprio	(Bioconcentra	
potential:						tion - Flow-	
						Through Fish	
						Test)	
12.3.	BCF	42d	0,8-		Cyprinus		A notable
Bioaccumulative			4,6		caprio		biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
		l		1			٥)٠





Page 19 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

12.3.	Log Pow		-2,68				
Bioaccumulative							
potential:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC50	3h	784	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	

Dimethyl ether	Dimethyl ether						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC0	96h	2695	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	LC50	96h	>4000	mg/l	Poecilia		
fish:					reticulata		
12.1. Toxicity to	LC50	96h	3082	mg/l	Salmo		
fish:					gairdneri		
12.1. Toxicity to	EC50	48h	>4000	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC0	96h	154,9	mg/l	Chlorella	QSAR	
algae:					vulgaris		
12.2. Persistence		28d	5	%		OECD 301 D	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	Log Pow		-0,07				Bioaccumula
Bioaccumulative							tion is
potential:							unlikely
							(LogPow <
							1). 25°C
							(pH 7)
12.4. Mobility in	H (Henry)		518,6	Pa*m3/			No
soil:				mol			adsorption
							in soil.
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC10		>1600	mg/l	Pseudomonas		
bacteria:					putida		





Page 20 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Other information:			Do	es not
			co	ntain any
			org	ganically
			bo	und
			hai	logens
			wh	nich can
			co	ntribute to
			the	e AOX
			va	lue in
			wa	iste
			wa	iter.DIN
			EN	N 1485
Water solubility:	45,60	mg/l	25	°C

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.





Page 21 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Classification code:5FLQ:1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

EmS: F-D, S-U Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

20 %





Page 22 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 8, 9, 10, 11, 12, 13, 15, 16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance $(EG)\ 1272/2008\ (CLP)$:

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Acute Tox. 4, H332	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.
STOT RE 2, H373	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

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

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.

H220 Extremely flammable gas.

Acute Tox. — Acute toxicity - inhalation

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Resp. Sens. — Respiratory sensitization

Skin Sens. — Skin sensitization

Carc. — Carcinogenicity

Aerosol — Aerosols

STOT RE — Specific target organ toxicity - repeated exposure



(GB

Page 23 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

Acute Tox. — Acute toxicity - oral

Flam. Gas — Flammable gases (including chemically unstable gases)

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European

Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGVBiological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPACCollaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances



(GB

Page 24 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWPHalocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform ChemicaL Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill

LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level

LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential





Page 25 of 25

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 18.04.2017 / 0009

Replacing version dated / version: 03.07.2015 / 0008

Valid from: 18.04.2017 PDF print date: 21.04.2017

INSULATION ADHESIVE B1 800 ML

Art.: 9030859

ppm parts per millionPROC Process categoryPTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No

1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.