Safety Data Sheet 1907/2006/EC - REACH (GB) 2-K-PU Kleber 622, Comp. B

Ramsauer GmbH & Co KG 4822 Bad Goisern / H.

Date printed 28.02.2017, Revision 28.02.2017

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SEC	TION 1: Identification of the sub	stance/mixture and of the company/undertaking		
1.1	Product identifier			
		2-K-PU Kleber 622, Comp. B		
1.2	Relevant identified uses of the	substance or mixture and uses advised against		
1.2.1	Relevant uses			
		Adhesive Hardener		
1.2.2	Uses advised against			
		None known.		
1.3	Details of the supplier of the sa	fety data sheet		
	Company	Ramsauer GmbH & Co KG Sarstein 17 4822 Bad Goisern / H. / AUSTRIA Phone +43(0)6135 8205-0 Fax +43(0)6135 8323 Homepage www.ramsauer.at E-mail office@ramsauer.at		
	Address enquiries to			
	Technical information	office@ramsauer.at		
	Safety Data Sheet	sdb@chemiebuero.de		
1.4	Emergency telephone number			
	Advisory body	+43 (0) 1 406 43 43 (24h)		
SEC	TION 2: Hazards identification			

Classification of the substance or mixture 2.1

> Carc. 2: H351 Suspected of causing cancer. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. Eye Irrit. 2: H319 Causes serious eye irritation. Skin Irrit. 2: H315 Causes skin irritation. STOT SE 3: H335 May cause respiratory 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. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

2.2	Laber elements		
		The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).	
	Hazard pictograms		
	Signal word	DANGER	
	Contains:	Diphenylmethanediisocyanate, isomeres and homologues	
	Hazard statements	 H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. 	
	Precautionary statements	 P260 Do not breathe vapours. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor. P501 Dispose of contents/container in accordance with local/regional/national/international regulation. 	
	Special labelling	EUH204 Contains isocyanates. May produce an allergic reaction.	
2.3	Other hazards		
	Human health dangers	Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.	
	Environmental hazards	Does not contain any PBT or vPvB substances.	
	Other hazards	Further hazards were not determined with the current level of knowledge.	
0.50	TION 2. Composition / Informati	· · ·	

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
25 - 50	Diphenylmethanediisocyanate, isomeres and homologues
	CAS: 9016-87-9
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373
2,5 - 10 Nonylbenzoate, branched and linear CAS: 670241-72-2, EINECS/ELINCS: 447-010-5, Reg-No.: 01-0000018876-55-XXXX GHS/CLP: Aquatic Chronic 2: H411	

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

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SECTION 4: First aid measures

4.1	Description of first aid measures	Description of first aid measures			
	General information	emove contaminated soaked clothing immediately and dispose of safely.			
	Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.			
	Skin contact	In the event of contact with the skin wash immediately with polyethylene glycol, then with plenty of water. Consult a doctor if skin irritation persists.			
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
	Ingestion	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a doctor immediately.			
4.2	Most important symptoms and eff	fects, both acute and delayed			

Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Carbon dioxide. Dry powder. Sand. Extinguishing media that must not Full water jet be used 5.2 Special hazards arising from the substance or mixture In the event of fire the following can be released: Nitrogen oxides (NOx). Hydrogen cyanide (HCN). Isocyanate 5.3 Advice for firefighters Use self-contained breathing apparatus. Wear full protective suit. Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment. High risk of slipping due to leakage/spillage of product. 6.2 Environmental precautions Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

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6.3	Methods and material for contai	nment and cleaning up		
		Pick up with absorbent material (e.g. sand, sawdust, universearth). Dispose of absorbed material in accordance within the regul		maceous
6.4	Reference to other sections			
		See SECTION 8+13		
SEC	TION 7: Handling and storage			
7.1	Precautions for safe handling			
		Use only in well-ventilated areas.		
		Provide suitable vacuuming at the processing machines.		
		Wash hands before breaks and after work.		
		Do not eat, drink or smoke when using this product.		
		Contaminated work clothing should not be allowed out of the	e workplace.	
		Use barrier skin cream.	·	
		Keep away from food and drink.		
		Take off contaminated clothing and wash before reuse.		
7.2	Conditions for safe storage, inc	uding any incompatibilities		
		Keep only in original container.		
		Prevent penetration into the ground.		
		Keep away from water.		
		Do not store together with oxidizing agents.		
		Do not store together with food and animal food/diet.		
		Keep container tightly closed.		
		Keep container in a well-ventilated place.		
		Protect from atmospheric moisture and water.		
		Store in a dry place.		
		Do not keep at temperatures above 50 °C. Keep away from frost.		
		Recommended storage temperature: 15 - 25 °C		
7.3	Specific end use(s)			
-		See product use, SECTION 1.2		

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational

exposure limits to be monitored (GB)

Substance

Substance
Diphenylmethanediisocyanate, isomeres and homologues
CAS: 9016-87-9
Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m ³

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Use suitable exhaust ventilation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	safety glasses (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). 0,7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). 0,7 mm Polychloroprene, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not breathe vapour/spray. Avoid contact with eyes and skin.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	~1,6 (20°C)
Bulk density [kg/m ³]	not applicable
Solubility in water	insoluble reacts with water
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

No information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with water, with formation of carbon dioxide. Reactions with alcohols. Reactions with amines. Development of pressure and risk of bursting in closed containers. (200°C) Risk of polymerisation.

10.4 Conditions to avoid

Strong heating. Water.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.:
oral, Based on the available information, the classification criteria are not fulfilled.:
ATE-mix, inhalative, > 20 mg/l (4 h).

Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LD50, dermal, Rabbit: > 9400 mg/kg (OECD 402).
LD50, oral, Rat: > 10000 mg/kg (OECD 401).
LC50, inhalativ (mist), Rat: 0,31 mg/l/4h (OECD 403).
NOAEL, inhalative, Rat: 0,2 mg/m ³ (OECD 453).
LOAEL, inhalative, Rat: 1 mg/m ³ (OECD 453).

Serious eye damage/irritation	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Irritant Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Calculation method
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. May cause respiratory irritation. Calculation method
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. May cause damage to lung through prolonged or repeated exposure through inhale. Calculation method
Mutagenicity	Based on available data, the classification criteria are not met. Does not contain a relevant substance that meets the classification criteria.
Reproduction toxicity	Based on available data, the classification criteria are not met. Does not contain a relevant substance that meets the classification criteria.
Carcinogenicity	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Suspected of causing cancer. Calculation method
Aspiration hazard	Based on available data, the classification criteria are not met. Does not contain a relevant substance that meets the classification criteria.
General remarks	
	The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203).
EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 202).
ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is not biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	Dispose of as hazardous waste. Coordinate disposal with the authorities if necessary.	
Waste no. (recommended)	080501*	
Contaminated packaging		
	Uncontaminated packaging may be taken for recycling.	
	Packaging that cannot be cleaned should be disposed of as for product.	
Waste no. (recommended)	150110*	

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SEC	TION 14: Transport information	
14.1	UN number	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name	
	Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.4	Packing group	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable

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14.5 Environmental hazards

Transport by land according to
ADR/RIDnoInland navigation (ADN)noMarine transport in accordance with
IMDGno

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

.1 Safety, health and environmental	Safety, health and environmental regulations/legislation specific for the substance or mixture	
EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830; (EU) 2016/131	
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).	
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4	
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.	
- VOC (2010/75/CE)	0 %	

SECTION 16: Other information

16.1 Hazard statements

(SECTION 03)

H411 Toxic to aquatic life with long lasting effects.

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

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

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16.2 Abbreviations and acronyms:			
	ADR = Accord européen relatif au transport international d Route	es marchandises Da	angereuses par
	RID = Règlement concernant le transport international ferr	oviaire de marchano	dises
	dangereuses	es marchandises da	ndereuses nar

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

0.5	Other Information	
	Classification procedure	Carc. 2: H351 Suspected of causing cancer. (Calculation method) STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
		(Calculation method)
		Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
		Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
		STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
		Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
		Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

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none