Printing date 12.04.2018	Version number 7	Revision: 12.04.2018
SECTION 1: Identification of the	substance/mixture and of the company/undertakin	g
 1.1 Product identifier Trade name: 	Epoxy-Remover	
 Article number: 1.2 Relevant identified uses of the substance or mixture and 	11983, 11977/11978	
uses advised against · Application of the substance / the	No further relevant information available.	
mixture	Paint remover	
• <u>1.3 Details of the supplier of the</u> • Manufacturer/Supplier:	safety data sheet AKEMI chemisch technische Spezialfabrik GmbH Lechstrasse 28 D 90451 Nürnberg	Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de
Further information obtainable from:	Laboratory	
 <u>1.4 Emergency telephone</u> <u>number:</u> 	Product Safety Department AKEMI chemisch technis Tel. +49(0)911-64296-59 Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m. Friday from 07:30 a.m. to 13:30 p.m. +44 (171) 635 91 91 National Poison Inform. Centre Medical Toxicology Unit Avalonley Road London SE14 5ER	che Spezialfabrik GmbH
Classification according to Regulat GHS08 health hazard	tion (EC) No 1272/2008	
Repr. 1B H360Df May dama	ge the unborn child. Suspected of damaging fertility.	
GHS05 corrosion		
	vere skin burns and eye damage. rious eye damage.	
GHS07		
Acute Tox. 4 H302 Harmful if s Acute Tox. 4 H332 Harmful if i		
STOT SE 3 H335 May cause	respiratory irritation.	
 <u>2.2 Label elements</u> Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The product is classified and labelled according to the	e CLP regulation.
	GHS05 GHS07 GHS08	(Contd. on page 2)



Printing date 12.04.2018

Version number 7

Revision: 12.04.2018

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•			
de name: Epoxy-Remover			
			(Contd. of page
Signal word	Danger		(Conta. of page
	-		
Hazard-determining componen of labelling:	N-ethyl-2-pyrro	lidone	
or labelling.	2-aminoethano		
Hazard statements		armful if swallowed or if i	inhaled.
		auses severe skin burns	
			hild. Suspected of damaging fertility.
		ay cause respiratory irrit	
Precautionary statements	P101		needed, have product container or la
	P102	at hand.	fchildron
	P102 P103	Keep out of reach o Read label before u	
	P260	Do not breathe mist	
	P271		or in a well-ventilated area.
	P280		ves/protective clothing/eye protection/fa
		protection.	
	P303+P361+P3		r): Take off immediately all contamina
		clothing. Rinse skin	with water [or shower].
	P305+P351+P3		cautiously with water for several minut
			nses, if present and easy to do. Contir
	5010	rinsing.	
	P310		POISON CENTER/doctor.
	P403+P233 P405		lated place. Keep container tightly clos
	P501	Store locked up.	nts/container in accordance with loo
	FJUT		ernational regulations.
2.3 Other hazards		regiona, nationa, int	
2.3 Other hazards Results of PBT and vPvB asses	ssment		
2.3 Other hazards Results of PBT and vPvB asses PBT:		-	
Results of PBT and vPvB asses	<u>ssment</u> Not applicable. Not applicable.	-	
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info	Not applicable. Not applicable. prmation on ingred	-	
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation	Not applicable. Not applicable. ormation on ingred n: Mixtures	lients	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description:	Not applicable. Not applicable. ormation on ingred n: Mixtures	lients	
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components:	Not applicable. Not applicable. ormation on ingred n: Mixtures Mixture of subs	lients	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description:	Not applicable. Not applicable. ormation on ingred n: Mixtures Mixture of subs	lients stances listed below with	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4	Not applicable. Not applicable. ormation on ingred n: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, 1	lients stances listed below with done 60Df H318	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6	Not applicable. Not applicable. ormation on ingred n: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, I	lients stances listed below with done 60Df H318	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5	Not applicable. Not applicable. ormation on ingred n: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, 1	lients stances listed below with done 60Df H318	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3	Not applicable. Not applicable. ormation on ingred <u>n: Mixtures</u> Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H3i Eye Dam. 1, I xx Acute Tox. 4,	lients stances listed below with done 60Df H318 H302	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8	Not applicable. Not applicable. Dormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H3i Eye Dam. 1, I XX Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4,	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3	nonhazardous additions.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3	Not applicable. Not applicable. Dormation on ingred n: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, I XX () Acute Tox. 4, 2-aminoethanol Skin Corr. 1B	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3	nonhazardous additions. 50-100
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28	Not applicable. Not applicable. Not applicable. ormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, I XX Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H	lients stances listed below with 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335	nonhazardous additions. 50-100
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information:	Not applicable. Not applicable. Not applicable. ormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, I XX (1) Acute Tox. 4, 2-aminoethanol Skin Corr. 1B (1) Acute Tox. 4, STOT SE 3, H For the wording	lients stances listed below with 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335	nonhazardous additions. 50-100 12; Acute Tox. 4, H332;
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28	Not applicable. Not applicable. Not applicable. ormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, I XX (1) Acute Tox. 4, 2-aminoethanol Skin Corr. 1B (1) Acute Tox. 4, STOT SE 3, H For the wording	lients stances listed below with 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335	nonhazardous additions. 50-100 12; Acute Tox. 4, H332;
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure 4.1 Description of first aid measure	Not applicable. Not applicable. Not applicable. In: Mixtures Mixture of subs N-ethyl-2-pyrrolia Repr. 1B, H30 Eye Dam. 1, H XX Conte Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es easures	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure <u>4.1 Description of first aid measure</u> <u>General information:</u>	Not applicable. Not applicable. Not applicable. In: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, H XX Conte Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es Easures Immediately res	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure 4.1 Description of first aid measure	Not applicable. Not applicable. Not applicable. ormation on ingred m: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H36 Eye Dam. 1, H XX Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es Easures Immediately refined and the second In case of un	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure General information: After inhalation:	Not applicable. Not applicable. Not applicable. ormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, H30 Eye Dam. 1, H30 Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es Easures Immediately rei In case of un transportation.	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled nconsciousness plac	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16. d by the product. e patient stably in side position
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure General information: After inhalation: After skin contact:	Not applicable. Not applicable. Not applicable. In: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, H30 Eye Dam. 1, H30 Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es Easures Immediately republic In case of un transportation. Immediately wa	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled nconsciousness plac	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16. d by the product. e patient stably in side position and rinse thoroughly.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure General information: After inhalation:	Not applicable. Not applicable. Not applicable. ormation on ingred Mixtures Mixture of subs N-ethyl-2-pyrrolid Repr. 1B, H30 Eye Dam. 1, H30 Eye Dam. 1, H30 Eye Dam. 1, H30 Skin Corr. 1B Skin Corr.	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled nconsciousness plac	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16. d by the product. e patient stably in side position and rinse thoroughly.
Results of PBT and vPvB asses PBT: vPvB: SECTION 3: Composition/info 3.2 Chemical characterisation Description: Dangerous components: CAS: 2687-91-4 EINECS: 220-250-6 Index number: 616-208-00-5 Reg.nr.: 01-2119472138-36-xxx CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28 Additional information: SECTION 4: First aid measure General information: After inhalation: After skin contact:	Not applicable. Not applicable. Not applicable. In: Mixtures Mixture of subs N-ethyl-2-pyrrolic Repr. 1B, H30 Eye Dam. 1, H30 Eye Dam. 1, H30 Acute Tox. 4, 2-aminoethanol Skin Corr. 1B Acute Tox. 4, STOT SE 3, H For the wording es Easures Immediately republic In case of un transportation. Immediately wa	lients stances listed below with done 60Df H318 H302 , H314 H302; Acute Tox. 4, H3 I335 g of the listed hazard phi move any clothing soiled nconsciousness plac	nonhazardous additions. 50-100 12.5-25 12; Acute Tox. 4, H332; rases refer to section 16. d by the product. e patient stably in side position

Printing date 12.04.2018

Version number 7

Revision: 12.04.2018

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4.2 Most important symptoms and effects, both acute and delayedN M Hazards4.3 Indication of any immediate medical attention and specialN	(Contd. of page Drink plenty of water and provide fresh air. Call for a doctor immediately. No further relevant information available. Danger of impaired breathing.
HazardsImage: Comparison of any immediate4.3 Indication of any immediatemedical attention and special	
4.3 Indication of any immediate medical attention and special	Danger of impaired breathing.
medical attention and special	
	No further relevant information available.
SECTION 5: Firefighting measures	
	'
r	CO2, powder or water spray. Fight larger fires with water spray or alcol resistant foam.
5.2 Special hazards arising from	
the substance or mixture N 5.3 Advice for firefighters	No further relevant information available.
Protective equipment: V	Near self-contained respiratory protective device. Near fully protective suit.
SECTION 6: Accidental release me	asures
6.1 Personal precautions, protective equipment and	
	Near protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Do not allow product to reach sewage system or any water course.
	nform respective authorities in case of seepage into water course or sewa
	system. Dilute with plenty of water.
	Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for	
	Absorb with liquid-binding material (sand, diatomite, acid binders, univers
	pinders, sawdust).
	Jse neutralising agent. Dispose contaminated material as waste according to item 13.
	Ensure adequate ventilation.
	See Section 7 for information on safe handling.
S	See Section 8 for information on personal protection equipment.
S	See Section 13 for disposal information.
SECTION 7: Handling and storage	
7.1 Precautions for safe	
	Keep receptacles tightly sealed.
	Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection:	No special measures required.
7.2 Conditions for safe storage, inc	cluding any incompatibilities
()here we a	
Storage:	
Requirements to be met by	lo special requirements
Requirements to be met by storerooms and receptacles:	No special requirements.
Requirements to be met by storerooms and receptacles:NInformation about storage in one	No special requirements. Not required.
Requirements to be met by storerooms and receptacles:Information about storage in one common storage facility:NFurther information about storage	Not required.
Requirements to be met by storerooms and receptacles:Information about storage in one common storage facility:NFurther information about storage conditions:F	

Printing date 12.04	.2018	Version number 7	Revision: 12.04.2018
Trade name: Epox	ky-Remover		
· <u>7.3 Specific en</u>	nd use(s) No f	urther relevant information available.	(Contd. of page 3)
SECTION 8: Ex	xposure controls/perso	nal protection	
 Additional information design of techn 		further data; see item 7.	
• <u>8.1 Control par</u>		monitoring at the workplace.	
141-43-5 2-ami		monitoring at the workplace:	
WEL Short-terr	m value: 7.6 mg/m³, 3 pp n value: 2.5 mg/m³, 1 pp		
· DNELs			
2687-91-4 N-et	hyl-2-pyrrolidone		
Dermal DNE	L (Langzeit-wiederholt)	8 mg/kg bw/day (ARB)	
Inhalative DNE	EL (Langzeit-wiederholt)	4 mg/kg bw/day (BEV) 40 mg/m³ Air (ARB) 10 mg/m³ Air (BEV)	
141-43-5 2-ami	inoethanol		
	L (Langzeit-wiederholt)	3.75 mg/kg bw/day (BEV)	
	L (Langzeit-wiederholt)		
	(0)	0.24 mg/kg bw/day (BEV)	
Inhalative DNE	L (Langzeit-wiederholt)	3.3 mg/m ³ Air (ARB)	
	()	2 mg/m ³ Air (BEV)	
· PNECs			
	hyl-2-pyrrolidone		
) 0.025 mg/l (MW)		
, v	0.25 mg/l (SW)		
PNEC (fest)	0.235 mg/kg Trockeng	ew (BO)	
× ,	0.191 mg/kg Trockeng		
	1.91 mg/kg Trockenge		
141-43-5 2-ami			
PNEC (wässrig) 100 mg/l (KA)		
	0.0085 mg/l (MW)		
	0.085 mg/I (SW)		
	0.025 mg/I (WAS)		
PNEC (fest)	0.035 mg/kg Trockeng	ew (BO)	
	0.0425 mg/kg Trocken	gew (MWS)	
	0.425 mg/kg Trockeng	ew (SWS)	
Additional inform	mation: The	lists valid during the making were used as basis.	
· 8.2 Exposure o	controls		
 Personal protect 	ctive equipment:		
General protect		p away from foodstuffs, beverages and feed.	
<u>measures:</u>	Imm Was Do r Avo	bediately remove all soiled and contaminated clothing sh hands before breaks and at the end of work. not inhale gases / fumes / aerosols. id contact with the eyes and skin. not eat, drink, smoke or sniff while working.	
	00	ior oar, annik, smoke of shin while working.	(Contd. on page 5)



Printing date 12.04.2018

Safety data sheet according to 1907/2006/EC, Article 31 Version number 7



Revision: 12.04.2018

Finiting date 12.04.2016		REVISION. 12.04.2010
Trade name: Epoxy-Remover		
· `		
	Use skin protection cream for skin protection.	(Contd. of page 4)
	Clean skin thoroughly immediately after handling the	product
Respiratory protection:	Use suitable respiratory protective device in case of	
	Filter AX	
 Protection of hands: 	Preventive skin protection by use of skin-protecting a	agents is recommended
	After use of gloves apply skin-cleaning agents and s	
	Skin protection agent recommendation for preventiv	
	protective gloves:	
	STOKODERM (http://www.stoko.com)	
	Skin protection agent recommendation for preventive	ve skin shelter in application
	and combination of protective gloves:	
	STOKO EMULSION (http://www.stoko.com)	
	Skin protection recommendation for skin cleaning af	ter product handling:
	FRAPANTOL (http://www.stoko.com)	
	Skin protection agent recommendation for skin after	care:
	STOKO VITAN (http://www.stoko.com)	with the specifications of the
	The protection gloves to be used have to comply w directive 89/686/EC and the directive derived decre	
	the above listed protection glove type. The mentio	
	were generated and verified with material sam	
	protection glove type in the scope of laboratory an	
	GmbH in compliance with EN374.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	This recommendation refers exclusively to the	material safety data sheet
	referenced product delivered by Akemi and the ind	
	case of product dilution or in case of mixture w	
	chemicals, and in condition of EN374 deviation th	
	protection gloves must be contacted for detailed in	
	Germany, 36124 Eichenzell, internet: http://www.kcl.	.de).
	Protective gloves	
	The glove material has to be imperme	eable and resistant to the
	product/ the substance/ the preparation.	
	Selection of the glove material on consi	
	times, rates of diffusion and the degradation	on
 Material of gloves 	Butyl rubber, BR	dependently restarial but
	The selection of the suitable gloves does not only also on further marks of quality and varies from man	
Penetration time of glove material	The exact break trough time has to be found out	
- choración time or giove material	protective gloves and has to be observed.	
	Value for the permeation: Level \leq 6, 480 min	
 For the permanent contact gloves 		
made of the following materials are		
suitable:	Butyl rubber, BR	
	Butoject (KCL, Art_No. 897, 898)	
 As protection from splashes gloves 		
made of the following materials are		
suitable:	Chloroprene rubber, CR	
	Camapren (KCL, Art_No. 720, 722, 726)	
	Fluorocarbon rubber (Viton)	
 Not suitable are gloves made of 	Vitoject (KCL, Art_No. 890)	
the following materials:	Nitrile rubber, NBR	
Eye protection:		
	Tightly sealed gogglos	
	Tightly sealed goggles	
		(Contd on page 6)

AKEMI®

Printing date 12.04.2018	Version number 7	Revision: 12.04.2018
Trade name: Epoxy-Remover		
Body protection:	Protective work clothing	(Contd. of page 5)
SECTION 9: Physical and chemica	Il properties	
• 9.1 Information on basic physical a • General Information • Appearance: Form: Colour:	Fluid Yellowish	
• <u>Odour:</u> • pH-value:	Characteristic Not applicable	
	Undetermined.	
· Flash point:	93 °C	
Ignition temperature:	385 °C	
 Auto-ignition temperature: 	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
<u>Explosion limits:</u> Lower: Upper:	1.3 Vol % 9.5 Vol %	
 Vapour pressure at 20 °C: 	0.3 hPa	
Density at 20 °C:	1.03 g/cm ³	
Solubility in / Miscibility with water:	Fully miscible.	
• <u>Viscosity:</u> Dynamic at 20 °C: <u>Kinematic:</u>	22,000 mPas Not determined.	
<u>Solvent content:</u> <u>Organic solvents:</u>	97.1 %	

SECTION 10: Stability and reactivity

Solids content: • 9.2 Other information

· 10.1 Reactivity	No further relevant information available.	
 10.2 Chemical stability 		
 Thermal decomposition / 		
conditions to be avoided:	No decomposition if used according to specifications.	
 10.3 Possibility of hazardous 		
reactions	Reacts with strong acids and oxidising agents.	
 10.4 Conditions to avoid 	No further relevant information available.	
 10.5 Incompatible materials: 	No further relevant information available.	
 10.6 Hazardous decomposition 		
products:	Carbon monoxide and carbon dioxide	
		(Contd. on page 7)

No further relevant information available.

7.5 %

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			(Contd. of pag
			(00.1.0. p.49
SECTION	11: Toxic	ological information	
		toxicological effects	
Acute toxic		Harmful if swallowed or if inhaled.	
		vant for classification:	
•	-	y Estimates)	
	LD50	1,327 mg/kg (rat)	
Dermal	LD50	5,277 mg/kg (rbt)	
Innalative	LC50/4 n	>5.88 mg/l	
2687-91-4	N-ethyl-2	P-pyrrolidone	
Oral	LD50	1,350 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
Inhalative	LC50/4 h	>5.1 mg/l (rat)	
141-43-5 2	2-aminoet	hanol	
Oral	LD50	1,089 mg/kg (rat)	
	LD50	1,025 mg/kg (rbt)	
Inhalative		1,487 mg/m3 (rat)	
		11 mg/l (ATE)	
Primary irr			
Skin corro			
		sensitisation Based on available data, the classification criteria are not m	net.
CMR effect	ts (carcinc	ogenity, mutagenicity and toxicity for reproduction)	
Germ cell			
Carcinoge Reproduct		Based on available data, the classification criteria are not n May damage the unborn child. Suspected of damaging ferti	
STOT-sing			
STOT-rep			
Aspiration	hazard	Based on available data, the classification criteria are not m	net.
SECTION	12. Ecolo	ogical information	
12.1 Toxic Aquatic to:			
Aqualic lo		2-nyrrolidone	
	-	ng/l (daphnia magna) (OECD 202)	
2687-91-4			
2687-91-4 EC50/48h	>1 000	$1 \text{ m}_{0/1}$ (DSeudomonas Dutida) (DIN 38412)	
2687-91-4 EC50/48h EC50/16h) mg/l (pseudomonas putida) (DIN 38412)) mg/l (BES) (OECD 209)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h	n >1,000) mg/l (BES) (OECD 209)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m	n >1,000 nin >1,000) mg/l (BES) (OECD 209)) mg/l (BES)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h	n >1,000 nin >1,000 >101 m) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h	n >1,000 nin >1,000 >101 m 464-99) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201))9 mg/l (Brachydanio rerio) (OECD 203)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h 141-43-52	n >1,000 hin >1,000 >101 m 464-99 2-aminoet) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201))9 mg/l (Brachydanio rerio) (OECD 203) hanol	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h	n >1,000 hin >1,000 >101 m 464-99 2-aminoet) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201))9 mg/l (Brachydanio rerio) (OECD 203) hanol) mg/l (BES) (OECD 209)	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h 141-43-5 2 EC50	n >1,000 hin >1,000 >101 m 464-99 2-aminoet >1,000 110 mg) mg/l (BES) (OECD 209)) mg/l (BES)) ng/l (Desmodesmus subspicatus) (OECD 201)) 99 mg/l (Brachydanio rerio) (OECD 203)) hanol) mg/l (BES) (OECD 209) g/l (pseudomonas putida) 	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h 141-43-52 EC50 EC10/18h	n >1,000 hin >1,000 >101 m 464-99 2-aminoet >1,000 110 mg 87 mg/) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201)) 9 mg/l (Brachydanio rerio) (OECD 203) (hanol) mg/l (BES) (OECD 209) (g/l (pseudomonas putida) // (pseudomonas putida) 	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h 141-43-5 2 EC50 EC10/18h EC50/48h	n >1,000 hin >1,000 >101 m 464-99 2-aminoet >1,000 110 mg 87 mg/ 65 mg/) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201)) 9 mg/l (Brachydanio rerio) (OECD 203) hanol) mg/l (BES) (OECD 209) g/l (BES) (OECD 209) g/l (pseudomonas putida) /l (pseudomonas putida) /l (daphnia magna) (67/548/EWG, Anhang V, C.2.) 	
2687-91-4 EC50/48h EC50/16h EC20/0.5h EC50/30m EC50/72h LC50/96h 141-43-52 EC50 EC10/18h	n >1,000 hin >1,000 >101 m 464-99 2-aminoet >1,000 110 mg 87 mg/ 65 mg/ 110 mg) mg/l (BES) (OECD 209)) mg/l (BES) ng/l (Desmodesmus subspicatus) (OECD 201)) 9 mg/l (Brachydanio rerio) (OECD 203) (hanol) mg/l (BES) (OECD 209) (g/l (pseudomonas putida) // (pseudomonas putida) 	

Printing date 12.04.2018

Version number 7

Revision: 12.04.2018

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rade name: Epo>	ky-Remover	
		(Contd. of page 7)
EC50/72h 22	2 mg/l (Scenedesm	us subspicatus) (EG 92/69)
2.	.5 mg/l (selenastrur	n capricornutum) (OECD 201)
LC50/96h 1 ⁻	70 mg/l (carassius	auratus) (APHA 1971)
	•	arpio) (OECD 203; 92/69 EG)
	29 mg/l (lem)	
· 12.2 Persisten	3 ()	
degradability		No further relevant information available.
· 12.3 Bioaccum	ulative potential	No further relevant information available.
· <u>12.4 Mobility i</u>		No further relevant information available.
	ogical information:	Denote the second standard strategies of the second strategies of the s
General notes:		Do not allow undiluted product or large quantities of it to reach ground water water course or sewage system.
		Water hazard class 1 (German Regulation) (Self-assessment): slightly
		hazardous for water
	f PBT and vPvB a	
· PBT:		Not applicable.
$\cdot \underline{vPvB}$	and affects	Not applicable.
· 12.6 Other adv	erse effects	No further relevant information available.
	Disposal consider atment methods on	ations Must not be disposed together with household garbage. Do not allow product to
		reach sewage system.
European wast		
		6 (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND TES) INCLUDING SEPARATELY COLLECTED FRACTIONS
		ctions (except 15 01)
20 01 00 Sepa		
200113 5010	ents	
 Uncleaned pac 		
 <u>Recommendati</u> 	<u>on:</u>	Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
SECTION 14: 1	Fransport informa	tion
· 14.1 UN-Numb · ADR, IMDG, IA		UN2491
• 14.2 UN prope • ADR	r shipping name	2491 ETHANOLAMINE SOLUTION mixture
· IMDG, IATA		ETHANOLAMINE SOLUTION mixture
	hazard class(es)	
· <u>ADR</u>		
· Class		8 (C7) Corrosive substances.
		(Contd. on page 9

(Contd. on page 9) GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.04.2018

Version number 7

Revision: 12.04.2018

AKEMI[®]

Trade name: Epoxy-Remover	
	(Contd. of page 8)
· Label	8
· <u>IMDG, IATA</u>	
· <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	III
• 14.5 Environmental hazards: • Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80 5 A S D
EMS Number: Segregation groups	F-A,S-B Alkalis
Stowage Category	A
<u>Segregation Code</u>	SG35 Stow "separated from" acids.
· 14.7 Transport in bulk according to Annex II	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	5L Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
· IMDG	
Limited quantities (LQ)	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2491 ETHANOLAMINE SOLUTION MIXTURE, 8, III

SECTION 15: Regulatory information

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

Directive 2012/18/EU		
 Named dangerous substances - 		
ANNEX I	None of the ingredients is listed.	
· REGULATION (EC) No 1907/2006		
ANNEX XVII	Conditions of restriction: 3	
· National regulations:		
 Waterhazard class: 	Water hazard class 1 (Self-assessment): slightly hazardous for water	er.
· VOC EU	998.3 g/l	
 15.2 Chemical safety 	-	
assessment:	A Chemical Safety Assessment has not been carried out.	
	(Co	ntd. on page 10)

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.04.2018

Version number 7

Revision: 12.04.2018

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Trade name: Epoxy-Remover (Contd. of page 9) **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. · Relevant phrases H302 Harmful if swallowed. H312 Harmful in contact with skin. Causes severe skin burns and eye damage. H314 H318 Causes serious eye damage. Harmful if inhaled. H332 H335 May cause respiratory irritation. H360Df May damage the unborn child. Suspected of damaging fertility. · Recommended restriction of use refer to Technical Data Sheet (TDS) · Department issuing SDS: Laboratory **Dieter Zimmermann** Contact: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de Abbreviations and acronyms: fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Repr. 1B: Reproductive toxicity - Category 1B

• <u>* Data compared to the previous</u> version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

GB