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1 Identification of the substance/	nixture and of the company/undertaking	
· Product identifier	instare and of the company/undertaking	
· Trade name:	Poly-Soft	
<u>Article number:</u>	10441/10442, 10443/10444, 10445, 10450/10451, 1 10467/10468, 10488/10490, 10492/10493, 104 10150/10151, 10152/10153, 10159	
	ostance or mixture and uses advised against	
<u>Application of the substance / the</u> preparation	Knife filler/ Surfacer	
Details of the supplier of the sate     Manufacturer/Supplier:	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	
	Dieter Zimmermann @mail D.Zimmermann@akemi.de	
<ul> <li>Emergency telephone number:</li> </ul>	Product Safety Department AKEMI chemisch technise	che Spezialfabrik GmbH
	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.	
2 Hazards identification		
· Classification of the substance		
<u>Classification according to Regula</u>	tion (EC) No 1272/2008	
GHS02 flame		
Flam. Liq. 3 H226 Flammable liquid and vapour.		
GHS07		
Skin Irrit. 2 H315 Causes skin ir	ritation.	
Eye Irrit. 2 H319 Causes seriou	is eye irritation.	
Classification according to Directive Xn; Harmful	ve 67/548/EEC or Directive 1999/45/EC	
R20: Harmful by inhalation.		
Xi; Irritant		
R36/38: Irritating to eyes and sl	<b>kin.</b>	
R10: Flammable.		
Information concerning particular		
hazards for human and environment:	Contact with skin and inhalation of aerosols/ vapour	s of the preparation should
	be avoided.	
	Vapours of the product are heavier than air and may	accumulate on the ground,
	in mines, drains or cellars with higher concentration. The product has to be labelled due to the calculation	procedure of the "General
	Classification guideline for preparations of the EU" in	the latest valid version.
<u>Classification system:</u>	The classification is according to the latest editions of by company and literature data.	the EU-lists, and extended
	by company and merature data.	(Contd. on page 2)

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



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GB

Trade name: Poly-Soft	
	(Contd. of page 1)
· Label elements	
Hazard-determining components     of labelling:	Void
<ul> <li>Labelling according to EU guidelines:</li> </ul>	The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
<u>Code letter and hazard</u> designation of product:	Xn Harmful
Hazard-determining components     of labelling:	styrene
<ul> <li><u>Risk phrases:</u></li> </ul>	<ol> <li>Flammable.</li> <li>Harmful by inhalation.</li> <li>36/38 Irritating to eyes and skin.</li> </ol>
<ul> <li><u>Safety phrases:</u></li> </ul>	<ol> <li>Keep out of the reach of children.</li> <li>Keep container in a well-ventilated place.</li> <li>Keep away from food, drink and animal feedingstuffs.</li> <li>Do not breathe gas/fumes/vapour/spray.</li> <li>Avoid contact with eyes.</li> <li>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.</li> <li>If swallowed, seek medical advice immediately and show this container or label.</li> </ol>
<ul> <li>Special labelling of certain preparations:</li> <li>Other hazards</li> </ul>	Contains phthalic anhydride. May produce an allergic reaction. During processing and product hardening the network generator is released as fume. Consequently, take care for adequate air conditioning and for fume exhaustion on request.
<ul> <li>Results of PBT and vPvB assessment</li> <li>PBT:</li> <li>vPvB:</li> </ul>	nent Not applicable. Not applicable.

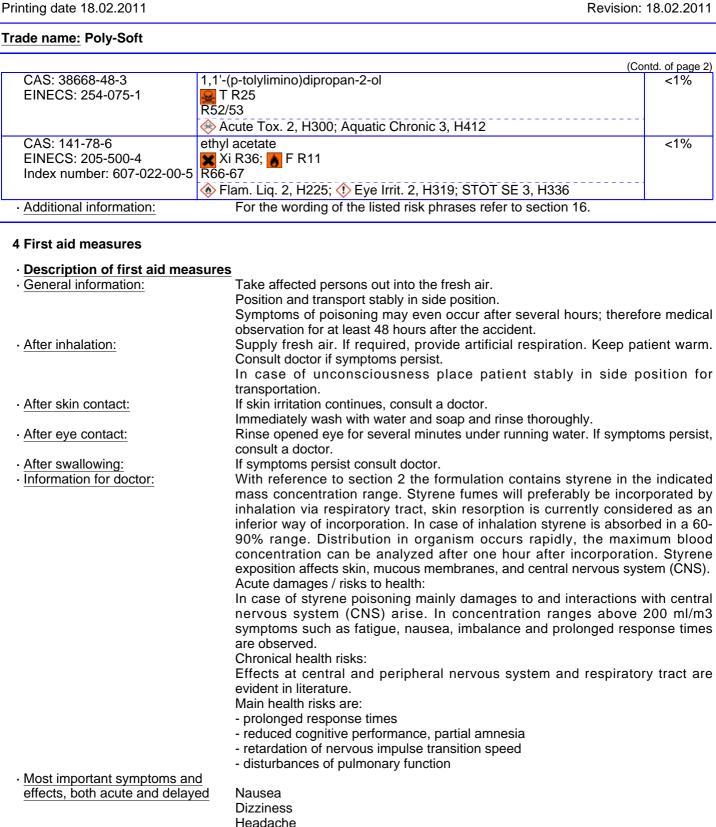
#### **3** Composition/information on ingredients

· Description:

Mixture of substances listed below with nonhazardous additions.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 100-42-5	styrene	12.5-25%
EINECS: 202-851-5	🗙 Xn R20; 🗙 Xi R36/38	
Index number: 601-026-00-0	R10	
	Flam. Liq. 3, H226;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 85-44-9	phthalic anhydride	<1%
EINECS: 201-607-5	🗙 Xn R22; 🗙 Xn R42/43; 🗙 Xi R37/38-41	
Index number: 607-009-00-4	Resp. Sens. 1, H334; O Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	(Cor	ntd. on page 3)

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- Hazards
- · Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

Danger of impaired breathing.

(Contd. on page 4) GB

AKEN



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	(Contd. of pag
5 Firefighting measures	
• Extinguishing media	
Suitable extinguishing agents:     For safety reasons unsuitable	CO2, sand, extinguishing powder. Do not use water.
extinguishing agents:	Water
	Water with full jet
Special hazards arising from the	
substance or mixture	Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:
	Carbon monoxide (CO)
	Under certain fire conditions, traces of other toxic gases cannot be excluded.
Advice for firefighters     Protective equipment:	Wear solf contained respiratory protective device
· Flotective equipment.	Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.
	Wear fully protective suit.
	Mount respiratory protective device.
· Additional information	Dispose of fire debris and contaminated fire fighting water in accordance w official regulations.
	Collect contaminated fire fighting water separately. It must not enter the sewa
	system.
procedures	Ensure adequate ventilation
	Keep away from ignition sources.
	Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol.
Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.
· Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course.
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• Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water.
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• <u>Methods and material for</u> containment and cleaning up:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewar system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univer binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
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• <u>Methods and material for</u> containment and cleaning up: • <u>Reference to other sections</u>	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univer binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
• <u>Methods and material for</u> <u>containment and cleaning up:</u> • <u>Reference to other sections</u> 7 Handling and storage	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univer binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
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• <u>Methods and material for</u> <u>containment and cleaning up:</u> • <u>Reference to other sections</u> 7 Handling and storage • <u>Handling:</u>	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewar system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univer binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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Trade name: Poly-Soft	
	(Contd. of page 4)
	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
· Conditions for safe storage, incl	uding any incompatibilities
• <u>Storage:</u>	
<u>Requirements to be met by</u> storerooms and receptacles:	Store only in the original receptacle. Prevent any seepage into the ground.
<ul> <li>Information about storage in one common storage facility:</li> </ul>	Store away from oxidizing agents. Store away from foodstuffs.
<u>Further information about storage</u> conditions:	Keep container tightly sealed.
8 Exposure controls/personal pro	tection
· Additional information about	
design of technical facilities:	No further data; see item 7.
· Control parameters	
Ingredients with limit values that re	quire monitoring at the workplace:
100-42-5 styrene	
WEL Short-term value: 1080 mg/n Long-term value: 430 mg/m <sup>3</sup>	
141-78-6 ethyl acetate	
WEL Short-term value: 400 ppm Long-term value: 200 ppm	
Additional information:	The lists valid during the making were used as basis.
Exposure controls     Personal protective equipment:     Canaral protective and buginais	
<ul> <li>General protective and hygienic measures:</li> </ul>	Do not eat, drink, smoke or sniff while working.
<u></u>	Use skin protection cream for skin protection.
	Clean skin thoroughly immediately after handling the product.
	Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
	Avoid contact with the eyes and skin.
<u>Respiratory protection:</u>	Short term filter device: Filter A/P2
	In case of brief exposure or low pollution use respiratory filter device. In case of
Desta di se affres de	intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:	Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.
	Akemi skin protection agent recommendation for preventive skin shelter without
	use of protective gloves:
	ARRETIL (http://www.stoko.com)
	Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
	STOKO EMULSION (http://www.stoko.com)
	Akemi skin protection recommendation for skin cleaning after product handling: SOLOPOL (http://www.stoko.com)
	SLIG SPEZIAL (http://www.stoko.com)
	Akemi skin protection agent recommendation for skin aftercare:
	STOKO VITAN (http://www.stoko.com)
	The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times´ data (Contd. on page 6)

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	(Contd. of page 5) were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374. This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).
	Protective gloves
<ul> <li>Material of gloves</li> </ul>	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Butyl rubber, BR
	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	Value for the permeation: Level $\geq$ 1.30 min The exact break trough time has to be found out by the manufacturer of the
For the permanent contact gloves made of the following materials are suitable:	protective gloves and has to be observed. Butyl rubber, BR Butoject (KCL, Art No. 897, 898)
<ul> <li>As protection from splashes gloves made of the following materials are</li> </ul>	
suitable:	Butyl rubber, BR Butoject (KCL, Art No. 897, 898)
<ul> <li>Not suitable are gloves made of the following materials:</li> </ul>	Leather gloves
Eye protection:	Strong material gloves Tightly sealed goggles
Body protection:	Protective work clothing
9 Physical and chemical properties	5
Information on basic physical an	d chemical properties
<u>General Information</u> Appearance:	
Form:	Pasty
Colour:	Different according to colouring

· Odour:Characteristic· pH-value:Not applicable

Undetermined.

<u>Change in condition</u>
 Melting point/Melting range:

(Contd. on page 7)

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	(Contd. of page 6)
Boiling point/Boiling range:	145°C
Flash point:	32°C
<ul> <li>Ignition temperature:</li> </ul>	480°C
<ul> <li><u>Self-igniting:</u></li> </ul>	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Explosion limits:</u> Lower: Upper:	1.2 Vol % 8.9 Vol %
<ul> <li>Vapour pressure at 20°C:</li> </ul>	6 hPa
Density at 20°C:	1.78 g/cm <sup>3</sup>
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.
• <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic:</u>	Not determined. Not determined.
<u>Solvent content:</u> Organic solvents:	16.3 %
Solids content:	82.1 %

### 10 Stability and reactivity

· Reactivity	
Chemical stability	
<ul> <li>Thermal decomposition /</li> </ul>	
conditions to be avoided:	No decomposition if used and stored according to specifications.
<ul> <li>Possibility of hazardous</li> </ul>	
reactions	Exothermic polymerization.
	Reacts with peroxides and other radical forming substances.
	Reacts with strong acids.
	Reacts with strong alkali.
<ul> <li>Hazardous decomposition</li> </ul>	-
products:	No dangerous decomposition products known.

### **11 Toxicological information**

### Information on toxicological effects Acute toxicity:

<ul> <li>Acute toxi</li> </ul>	city:		
LD/LC50 values relevant for classification:			
100-42-5	styrene		
Oral	LD50	>2000 mg/kg (rat)	
Inhalative	LC50/4 h	11.8 mg/l (rat)	
	LC50/4h	9.5 mg/m3 (mouse)	
<ul> <li>Primary iri</li> </ul>	ritant effect		
<ul> <li>on the skir</li> </ul>	า:	Irritant to skin and mucous membranes.	
<ul> <li>on the eye</li> </ul>	<u>):</u>	Irritating effect.	
<ul> <li>Sensitizati</li> </ul>	ion:	No sensitizing effects known.	
			(Contd. on page 8)
			GB

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	(Contd. of page 7)
<ul> <li>Experience with humans:</li> </ul>	After incorporation and inhalation styrene predominantly will be metabolized in the organism to mandelic and phenylglyoxylic acid and matabolites will pass through urine excretion.
<ul> <li>Additional toxicological</li> </ul>	-
information:	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful
	Irritant
<ul> <li>Toxicokinetics, metabolism and</li> </ul>	
distribution	After incorporation and inhalation styrene predominantly will be metabolized in the organism to mandelic and phenylglyoxylic acid and metabolites will pass through urine excretion.
<ul> <li><u>CMR effects (carcinogenity,</u> mutagenicity and toxicity for</li> </ul>	
reproduction)	Styrene
<i>i</i>	Tests for chromosome divergence:
	Mouse micro-nucleus test: mutagen
	Styrene:
	Tests for DNA effects:
	- exchange of chromatides: mutagen
	- DNA chain fragmentation: mutagen

### 12 Ecological information

### · Toxicity

	Acquatic toxicity:		
100-42-5 s	styrene		
EC10/16h	72 mg/l (pseudomonas putida)		
EC50	500 mg/l (BES) (ISO Vorschrift 8192-1986 E)		
	5.5 mg/l (Photobac. phosphoreum)		
EC50/16h	> 72.0 mg mg/l (pseudomonas putida)		
EC50/48h	0.56 mg/l (green alge)		
	4.7 mg/l (daphnia magna)		
EC50/72u	>1-<10 mg/l (green alge)		
EC50/8d	> 200 mg/l (Scenedesmus quadricauda)		
IC5/8d	> 200 mg/l (Scenedesmus quadricauda)		
IC50/72h			
	1.4 mg mg/l (selenastrum capricornutum)		
LC50/96h	>1-<10 mg/l (piscis)		
	25.0 mg/l (lem)		
	32 mg/l (pimephales promelas)		
	4.02 mg/l (Pimephales promelas)		
· Additiona	l ecological information:		
<ul> <li>General n</li> </ul>			
	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water		
· Results o	f PBT and vPvB assessment		
· PBT:	Not applicable.		
· <u>vPvB:</u>	Not applicable.		
	(Contd. on page 9) GB		



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#### **13 Disposal considerations**

#### · Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

waste catalogue	
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
separately collected fractions (except 15 01)	
* paint, inks, adhesives and resins containing dangerous substances	
d packaging:         endation:       Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.	

### <u>Recommended cleansing agents:</u> Alcohol acetone

#### 14 Transport information

· Land transport ADR/RID (cross-border)			
<ul> <li><u>ADR/RID class:</u></li> <li><u>Danger code (Kemler):</u></li> <li><u>UN-Number:</u></li> <li><u>Packaging group:</u></li> <li><u>Hazard label</u></li> <li><u>UN proper shipping name:</u></li> <li><u>Limited quantities (LQ)</u></li> <li><u>Transport category</u></li> <li><u>Tunnel restriction code</u></li> <li><u>Remarks:</u></li> </ul>	3 (F1) Flammable liquids. - 3269 III 3 3269 POLYESTER RESIN KIT LQ7 3 E Without hardener component: no dangerous goods < 450 I		
• Maritime transport IMDG:			
<ul> <li>IMDG Class:</li> <li>UN Number:</li> <li>Label</li> <li>Packaging group:</li> <li>EMS Number:</li> <li>Marine pollutant:</li> <li>Proper shipping name:</li> <li>Remarks:</li> </ul>	3 3269 3 III F-E,S-D No POLYESTER RESIN KIT Without hardener component: no dangerous goods < 30 I		
Air transport ICAO-TI and IAT	A-DGR:		
· ICAO/IATA Class:	3	(Contd. on page 10)	
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### Trade name: Poly-Soft

Trade frame. Pory-Soft			
		(Contd. of page 9)	
<ul> <li><u>UN/ID Number:</u></li> <li><u>Label</u></li> <li><u>Packaging group:</u></li> <li><u>Proper shipping name:</u></li> <li><u>Remarks:</u></li> </ul>	3269 3 III POLYESTER RESIN KIT Without hardener component: 3/III UN 1866 Resin Solution		
• <u>UN "Model Regulation":</u> • <u>Special precautions for user</u>	UN3269, POLYESTER RESIN KIT, 3, III Warning: Flammable liquids.		
15 Regulatory information			
<ul> <li>Safety, health and environmenta</li> </ul>	I regulations/legislation specific for the substance or mixture		
<ul> <li>National regulations:</li> </ul>			
<ul> <li>Information about limitation of use:</li> </ul>	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.		
<ul> <li>Waterhazard class:</li> <li>VOC EU</li> <li>Chemical safety assessment:</li> </ul>	Water hazard class 2 (Self-assessment): hazardous for water. 289.8 g/l A Chemical Safety Assessment has not been carried out.		
<b>16 Other information</b> 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.			
<ul> <li><u>Relevant phrases</u></li> </ul>	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H300 Fatal if swallowed.</li> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> </ul>	difficulties if	
	<ul> <li>R20 Harmful by inhalation.</li> <li>R22 Harmful if swallowed.</li> <li>R25 Toxic if swallowed.</li> <li>R36 Irritating to eyes.</li> <li>R36/38 Irritating to eyes and skin.</li> <li>R37/38 Irritating to respiratory system and skin.</li> <li>R41 Risk of serious damage to eyes.</li> <li>R42/43 May cause sensitisation by inhalation and skin contact.</li> <li>R52/53 Harmful to aquatic organisms, may cause long-term adv the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> </ul>	erse effects in	
Recommended restriction of use	R67 Vapours may cause drowsiness and dizziness. refer to Technical Data Sheet (TDS)		
· Department issuing MSDS:	Laboratory	Contd. on page 11)	

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Trade name: Poly-Soft	
	(Contd. of page 10)
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<ul> <li>Abbreviations and acronyms:</li> </ul>	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European
	Agreement concerning the International Carriage of Dangerous Goods by Road)
	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization
	ICAO. International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
	GHS: Globally Harmonized System of Classification and Labelling of Chemicals
	LC50: Lethal concentration, 50 percent
* Data as an and to the same in a	LD50: Lethal dose, 50 percent
<u>* Data compared to the previous</u>	
version altered.	Adaptation in accordance with REACH directive 1907/2006/EC