

CRAMER GMBH I SALZSTRASSE 8A I D 85622 FELDKIRCHEN

Safety Data Sheet for:

16xxx Cramer Repair-Kit

This Kit contains: 17080 Cramer Repair Spray 50ml 20010 Cramer Filler 30g 21010 Cramer Hardener 8g Page 1/9

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

Printing date 25.02.2014

Version number 9

Revision: 25.02.2014

1 Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: Repair-Spray 50 ml
• Article number: 17000 - 17999 • 1.2 Relevant identified uses of the substance or mixture and uses advised against • Application of the substance / the mixture Lacquer
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Cramer GmbH Salzstrasse 8 A</li> <li>D-85622 Feldkirchen Tel.: +49(0)89-99909770 Fax.: +49(0)89-999097777 E-Mail: info@cramer-gmbh.de www.cramer-gmbh.de</li> <li>Further information obtainable from: QHSE Department Department Department Product Safety</li> <li>1.4 Emergency telephone number: +49(0)89 99909770 (Mo-Do 08:00 -16:00 Uhr, Fr 08:00-12:00 Uhr)</li> </ul>
2 Hazards identification · 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS07
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R36; Irritating to eyes.
<i>F+; Extremely flammable</i>
R12: Extremely flammable.
<i>R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.</i>
<ul> <li>Information concerning particular hazards for human and environment: 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. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurized container. Has a narcotizing effect.</li> <li>Classification system:</li> </ul>
• <i>Classification system:</i> The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
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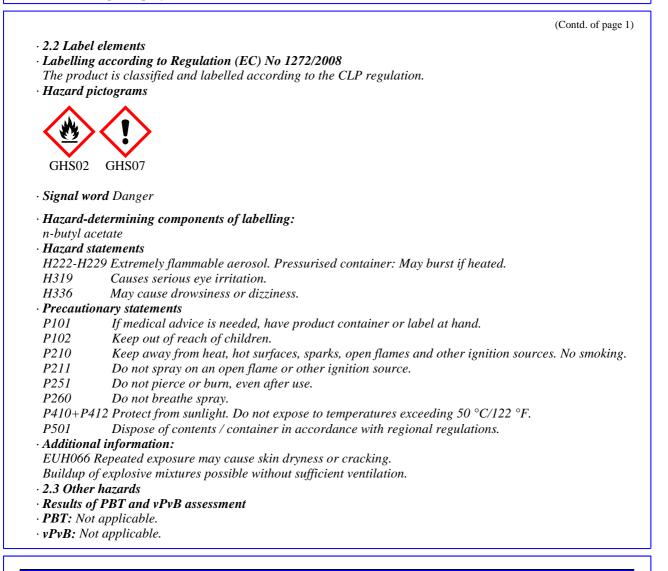
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Trade name: Repair-Spray 50 ml



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

· 3.2 Chemical characterization: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

CAS: 123-86-4	n-butyl acetate	25-<5
EINECS: 204-658-1	R10-66-67	
Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
CAS: 67-64-1	acetone	25-<5
EINECS: 200-662-2	🗙 Xi R36; 🐞 F R11	
Reg.nr.: 01-2119471330-49	<u>R6</u> 6-67	
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 74-98-6	propane	5-<10
EINECS: 200-827-9	F + R12	
Reg.nr.: 01-2119486944-21	🐼 Flam. Gas 1, H220; Press. Gas, H280	
CAS: 106-97-8	butane	5-<10
EINECS: 203-448-7	▶ F+ R12	
Reg.nr.: 01-2119474691-32		
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	(0	Contd. of page 2)
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-<5.0%
EINECS: 203-603-9	R10	
Reg.nr.: 01-2119475791-29	🚸 Flam. Liq. 3, H226	
CAS: 75-28-5	isobutane	2.5-<5.0%
EINECS: 200-857-2	▶ F+ R12	
Reg.nr.: 01-2119485395-27	📀 Flam. Gas 1, H220; Press. Gas, H280	
CAS: 1330-20-7	xylene, mixture of isomers	<2.5%
EINECS: 215-535-7	🗙 Xn R20/21; 🗙 Xi R38	
Reg.nr.: 02-2119752448-30	$\overline{R10}$	
	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom.	<2.5%
EINECS: 265-198-5	<b>X</b> <i>N R</i> 65	
Reg.nr.: 01-2119510128-50	🐼 Asp. Tox. 1, H304	
CAS: 67-63-0	propan-2-ol	<2.5%
EINECS: 200-661-7	🗙 Xi R36; 🐞 F R11	
Reg.nr.: 02-2119752543-38		
01-2119457558-25	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	<i>≤</i> 0.5%
EINECS: 265-199-0	🗙 Xn R65; 🗙 Xi R37; 🍢 N R51/53	
Reg.nr.: 01-2119486773-24		
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ↑ STOT SE 3, H335-H336	

#### · Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1 67/548 EU), so the classification as carcinogen need not to apply. For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

· 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **5** *Firefighting measures*

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:
- Water

Water with full jet

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters -
- · Protective equipment: No special measures required.

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6 Accidental release measures
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.</li> <li>6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Do not allow product to reach sewage system or any water course.</li> <li>6.3 Methods and material for containment and cleaning up: Do not flush with water or aqueous cleansing agents Ensure adequate ventilation.</li> <li>6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</li> </ul>
7 Handling and storage
<ul> <li>7.1 Precautions for safe handling         Ensure good ventilation/exhaustion at the workplace.         Open and handle receptacle with care.         Information about fire - and explosion protection:         Keep ignition sources away - Do not smoke.         Protect against electrostatic charges.     </li> </ul>
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers.</li> <li>Information about storage in one common storage facility: Not required.</li> <li>Further information about storage conditions: Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.</li> <li>Storage class: 2B</li> <li>7.3 Specific end use(s) No further relevant information available.</li> </ul>
8 Exposure controls/personal protection
• Additional information about design of technical facilities: No further data; see item 7.
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:     123-86-4 n-butyl acetate
WEL () Short-term value: 966 mg/m <sup>3</sup> , 200 ppm
Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
67-64-1 acetone
WEL () Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

# 106-97-8 butane

WEL () Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

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WEL () S 1 5 1330-20- WEL () S 1	5 <b>2-methoxy-1-methylethyl acetate</b> Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
1330-20- WEL () 5	Long-term value: 274 mg/m <sup>3</sup> , 50 ppm
S 1330-20- WEL () 1	
WEL () S 1	
1	7 xylene, mixture of isomers
	Short-term value: 441 mg/m³, 100 ppm
5	Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
67-63-0 I	propan-2-ol
	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
·Ingredie	nts with biological limit values:
1330-20-	7 xylene, mixture of isomers
BMGV()	) 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
. Addition	al information: The lists valid during the making were used as basis.
Wash han Do not in Avoid con • <b>Respirato</b> Not neces Otherwis	tely remove all soiled and contaminated clothing nds before breaks and at the end of work. hale gases / fumes / aerosols. ntact with the eyes and skin. ory protection: ssary if room is well-ventilated. se, filter class A / P2 or self contained. on of hands:
	Protective gloves
In case of KCL Can The glove Selection degradat • <b>Material</b>	resistant gloves of contact with spray dust protective gloves made of butyl shoud be used (min. 0.4 mm thick), en natril, article no. 898 or similar products e material has to be impermeable and resistant to the product/ the substance/ the preparation. n of the glove material on consideration of the penetration times, rates of diffusion and t tion <b>to f gloves</b> Butyl rubber, BR <b>ion time of glove material</b> beber gloves with a thickness of 0.4 mm are resistant to:

Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min • **Eye protection:** Safety glasses

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9.1 Information on basic physical a	und chemical properties
General Information	
Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic Not determined
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	13.0 Vol %
Vapour pressure at 20 °C:	233 hPa
Density at 20 °C:	$0.85 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC-(EU)	
	712.8 g/l
	 712.8 g/l No further relevant information available.

# **10 Stability and reactivity**

· 10.1 Reactivity

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· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

 $\cdot$  10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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Toxicolo	gical information
· 11.1 Infor	mation on toxicological effects
• Acute toxi	
· LD/LC50	values relevant for classification:
67-64-1 ac	etone
Oral L	D50 5800 mg/kg (rat)
Dermal L	D50 20000 mg/kg (rabbit)
	ritant effect:
	n: No irritant effect.
	: Irritating effect. on: No sensitizing effects known.
	I toxicological information:
The prod	uct shows the following dangers according to the calculation method of the General E
•	tion Guidelines for Preparations as issued in the latest version:
Irritant Vapours h	ave narcotic effect.
vapours n	
	r <b>ity</b> xicity: No further relevant information available. stence and degradability No further relevant information available.
<ul> <li>12.2 Persi.</li> <li>12.3 Bioad</li> <li>12.4 Mobi</li> <li>Additional</li> <li>General n Water haze</li> </ul>	xicity: No further relevant information available. stence and degradability No further relevant information available. ccumulative potential No further relevant information available. lity in soil No further relevant information available. l ecological information: otes: ard class 2 (German Regulation) (Self-assessment): hazardous for water
<ul> <li>12.2 Persi.</li> <li>12.3 Bioad</li> <li>12.4 Mobi.</li> <li>Additional</li> <li>General n</li> <li>Water haz.</li> <li>Do not all.</li> </ul>	xicity: No further relevant information available. stence and degradability No further relevant information available. scumulative potential No further relevant information available. lity in soil No further relevant information available. l ecological information: otes: ard class 2 (German Regulation) (Self-assessment): hazardous for water ow product to reach ground water, water course or sewage system.
<ul> <li>12.2 Persi.</li> <li>12.3 Bioad</li> <li>12.4 Mobi.</li> <li>Additional</li> <li>General n</li> <li>Water haz,</li> <li>Do not all</li> <li>Danger to</li> </ul>	xicity: No further relevant information available. stence and degradability No further relevant information available. scumulative potential No further relevant information available. lity in soil No further relevant information available. l ecological information: otes: ard class 2 (German Regulation) (Self-assessment): hazardous for water ow product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground.
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12.2 Persi 12.3 Bioac 12.4 Mobi Additional General n Water haz. Do not all Danger to 12.5 Resul PBT: Not PBT: Not 12.6 Other 13.1 Wasta Recomment Must not b	xicity: No further relevant information available. stence and degradability No further relevant information available. scumulative potential No further relevant information available. lity in soil No further relevant information available. lecological information: otes: ard class 2 (German Regulation) (Self-assessment): hazardous for water ow product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground. Its of PBT and vPvB assessment applicable. r adverse effects No further relevant information available. considerations e treatment methods madation we disposed together with household garbage. Do not allow product to reach sewage system.
<ul> <li>12.2 Persi.</li> <li>12.3 Bioac.</li> <li>12.4 Mobi.</li> <li>Additional.</li> <li>General n Water haz. Do not all.</li> <li>Danger to</li> <li>12.5 Resu.</li> <li>PBT: Not</li> <li>vPvB: Not</li> <li>12.6 Other</li> <li>13.1 Wast.</li> <li>Recomme.</li> <li>Must not b</li> <li>European</li> </ul>	xicity: No further relevant information available. stence and degradability No further relevant information available. scumulative potential No further relevant information available. lity in soil No further relevant information available. lecological information: otes: ard class 2 (German Regulation) (Self-assessment): hazardous for water ow product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground. lts of PBT and vPvB assessment applicable. r adverse effects No further relevant information available. Considerations e treatment methods matation we disposed together with household garbage. Do not allow product to reach sewage system. waste catalogue
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Revision: 25.02.2014

Trade name: Repair-Spray 50 ml

		(Contd. of page
Transport information		
14.1 UN-Number ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name ADR IMDG IATA	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable	
14.3 Transport hazard class(es)		
ADR		
Class Label	2 5F Gases. 2.1	
IMDG, IATA Class Label	2.1 2.1	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user Danger code (Kemler): EMS Number:	Warning: Gases. - F-D,S-U	
14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	<b>x II of</b> Not applicable.	
Transport/Additional information:		
ADR Limited quantities (LQ) Transport category Tunnel restriction code	1L 2 D	
UN "Model Regulation":	UN1950, AEROSOLS, 2.1	

# **15 Regulatory information**

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

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **16 Other information**

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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.

(Contd. on page 9)

GB

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

Printing date 25.02.2014

Version number 9

Revision: 25.02.2014

Trade name: Repair-Spray 50 ml

Relevant phrases         H225       Extremely flammable liquid and vapour.         H226       Flammable liquid and vapour.         H220       Flammable liquid and vapour.         H210       Contains gas under pressure; may explode if heated.         H310       Causes skin irritation.         H311       Causes serious eye irritation.         H312       Harmful finhaled.         H333       May cause respiratory irritation.         H334       Mary cause drowsiness or dizziness.         H11       Toxic to aquatic life with long lasting effects.         R111       Highly flammable.         R12       Extremely flammable.         R12       Extremely flammable.         R12       Extremely flammable.         R13       Fritating to eyes.         R37       Irritating to eyes.         R37       Irritating to skin.         R51/53       Toxic to aquatic organisms, may cause long-term adve		(Contd. of page
<ul> <li>H220 Extremely flammable igaid and vapour.</li> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H313 Causes skin irritation.</li> <li>H314 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause respiratory irritation.</li> <li>H337 May cause respiratory irritation.</li> <li>H338 May cause respiratory irritation.</li> <li>H339 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R77 Vapours may cause drowsiness and dizziness.</li> <li>Department issuing MSDS: Laboratory</li> <li>Contact: Anwendungstechnik</li> <li>Abbreviations and acronyms:</li> <li>R10: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning e International Transport Jourgen Scoods by Rail)</li> <li>ICA0: International Transport of Dangerous Goods by Rail)</li> <li>ICA0: International Transport of Dangerous Goods by Rail)</li> <li>ICA0: International Transport of Lamsport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internation Carriage of Dangerous Goods by Rail)</li> <li>ICA0: International Maritime Code for Dangerous Goods</li> <li>IA74: International Maritime Code for Dangerous Goods</li> <li>IA74: International Maritime Code for Dangerous Goods</li> <li>IA74: Internati</li></ul>	Relev	ant phrases
<ul> <li>Highly fammable liquid and vapour.</li> <li>Flammable liquid and vapour.</li> <li>Contains gas under pressure; may explode if heated.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Harnful in contact with skin.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Harnful if inhaled.</li> <li>Causes respiratory irritation.</li> <li>Hars data erespiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>Highly flammable.</li> <li>R11 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R17 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to esist.</li> <li>R47 Turitating to esist.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> <li>Department issuing MSDS: Laboratory</li> <li>Contact: Anwendungstechnik</li> <li>Abbreviations and acronyms:</li> <li>R10. Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internation Carriage of Dangerous Goods by Rait)</li> <li>ICAO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internation Carriage of Dangerous Goods by</li></ul>		
<ul> <li>Flammable liquid and vapour.</li> <li>Contains gas under pressure; may explode if heated.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Harmful in contact with skin.</li> <li>Causes skin irritation.</li> <li>Causes skin irritation.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>Causes skin irritation.</li> <li>Causes skin irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>May cause drowsiness or dizziness.</li> <li>R10 Flammable.</li> <li>R11 Toxic to aquatic life with long lasting effects.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R12 Extremely flammable.</li> <li>R2021 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R70 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acromyms: R10: Rejenent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Covil Aviation Organization Abbreviations and acromyms: R10: Rejenent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage of Dangerous Goods by Rail) ICAO: International Maritime Code for Dangerous Goods IND4: Accord européen sur Letransport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internation Carriage of Dangerous Goods by State) IC		
<ul> <li>May be fatal if swallowed and enters airways.</li> <li>Harnful in contact with skin.</li> <li>Harnful in contact with skin.</li> <li>Harnful in contact with skin.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Harnful if inhaled.</li> <li>Flammable.</li> <li>R11 Highly flammable.</li> <li>R2021 Harnful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>Irritating to respiratory system.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acorogms: <ul> <li>Abbreviational acord acordination</li> <li>Abbreviational dacord system of es marchandises dangereuses par chemin de fer (Regulations Concerning International Transport of Bangerous Goods by Rail)</li> <li>ICAO: International Concernation H transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Transport of Bangerous Goods by Rail) IDA: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Rail) IDA: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Rail) IDA: Accord européen sur le transport des ma</li></ul>		
<ul> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes skin irritation.</li> <li>H321 Harmful if inhaled.</li> <li>H333 May cause respiratory irritation.</li> <li>H334 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R20/21 Harmful by eves.</li> <li>R37 Irritating to eves.</li> <li>R38 Irritating to respiratory system.</li> <li>R18 Irritating to respiratory system.</li> <li>R51/53 Toxic to aquatic lorganisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R77 Vapours may cause drowsiness and dizziness.</li> <li>Department issuing MSDS: Laboratory</li> <li>Contact: Anwendungstechnik</li> <li>Abbreviational Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Vaitaino Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fe</li></ul>		
<ul> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H32 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R77 Vapours may cause drowsiness and dizziness.</li> <li>Department issuing MSDS: Laboratory</li> <li>Contact: Anwendungstechnik</li> <li>Abbreviational Torinsport of Dangerous Goods by Rail)</li> <li>IGO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concerning the International Concerning the International Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Maritime Code for Dangerous Goods</li></ul>	H304	May be fatal if swallowed and enters airways.
<ul> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R75 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R39 Irritating to explain and in contact with skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmful!: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acronyms: R10. Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord Domegrous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: I	H312	Harmful in contact with skin.
<ul> <li>Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmful! may cause lung damage if swallowed</li> <li>R67 Vapours may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acronyms: R10: Regelement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord europeén sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ALABELING): Europeen List of Notified Chemica	H315	Causes skin irritation.
<ul> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R35 Trititating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R77 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Aboreviations and acronyms: R1D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (negulations Concerning to International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (negulations Concerning to International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IEATA: International Advitime Code for Dangerous Goods IEATA: International Maritime Code for Dangerous Goods IEATA: International Advitime Code for Dangerous Goods IEATA: International Advitime Code for Dangerous Goods IEATA: International Advitime Code for Dangerous Goods IEATA: International Adviti	H319	Causes serious eye irritation.
<ul> <li>H336 May cause drowsiness or dizziness.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R22 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R39 Irritating to respiratory system.</li> <li>R31 Irritating to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviational Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sure te transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organization ADR: Accord européen sure te transport des marchandises dangereuses par chemin de fer (negulations Concerning the International Civil Aviation Organization ADR: Accord européen sure te transport des marchandises dangereuses par chemin de fer (negulations Concerning the International Civil Aviation Organization ADR: Accord européen sure te transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Afritime Code for Dangerous Goods IATA: International Afri	H332	Harmful if inhaled.
<ul> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> <li>Department issuing MSDS: Laboratory</li> <li>Contact: Anwendungstechnik</li> <li>Abbreviational and acronyms:</li> <li>R1D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Transport of Dangerous Goods by Rail)</li> <li>ICA0: International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Roud)</li> <li>IMDG: International Ari Transport Association</li> <li>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>EINECS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Serv</li></ul>	H335	May cause respiratory irritation.
<ul> <li>R10 Flammable.</li> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R38 Irritating to akin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acronyms: R1D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning to International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Road) IMDG: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent	H336	May cause drowsiness or dizziness.
<ul> <li>R11 Highly flammable.</li> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> Department issuing MSDS: Laboratory Contact: Anwendungstechnik Abbreviations and acronyms: R1D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning of International Transport of Dangerous Goods by Rail) International Transport of Dangerous Goods International Airtime Code for Dangerous Goods IA7: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LCS0: Lethal concentration, 50 percent	H411	Toxic to aquatic life with long lasting effects.
<ul> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> <b>Department issuing MSDS:</b> Laboratory <b>Contact:</b> Anwendungstechnik <b>Aboveviations and acronyms:</b> RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Gravinge of Dangerous Goods by Roil) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ELINCS: European List of Notified Chemical Substances ELINCS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LCS0: Lethal concentration, 50 percent	R10	Flammable.
<ul> <li>R12 Extremely flammable.</li> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> <b>Department issuing MSDS:</b> Laboratory <b>Contact:</b> Anwendungstechnik <b>Abereviations and acronyms:</b> R1D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LOSO: Lethal concentration, 50 percent	R11	Highly flammable.
<ul> <li>R20/21 Harmful by inhalation and in contact with skin.</li> <li>R36 Irritating to eyes.</li> <li>R37 Irritating to respiratory system.</li> <li>R38 Irritating to respiratory system.</li> <li>R38 Irritating to skin.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R65 Harmfull: may cause lung damage if swallowed</li> <li>R66 Repeated exposure may cause skin dryness or cracking.</li> <li>R67 Vapours may cause drowsiness and dizziness.</li> </ul> <b>Department issuing MSDS:</b> Laboratory <b>Contact:</b> Anwendungstechnik <b>Aberviations and acronyms:</b> RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organization ADR: Sclobally Harmonized System of Classification and Labelling of Chemicals ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LOSO: Lethal concentration, 50 percent	R12	
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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.03.2014

Version number 32

Revision: 12.03.2014

GB

# 1 Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Repair-Kit / Filler 30 g · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Knife filler/ Surfacer $\cdot$ 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Cramer GmbH Salzstrasse 8 A 85622 Feldkirchen Tel.: +49(0)89 99909 770 Fax.: +49(0)89 99909 7777 E.Mail: info@cramer-gmbh.de www.cramer-gmbh.de · 1.4 Emergency telephone number: +49 (0)89 99909770 (Mo-Do 08:00 - 16:00 Uhr, Fr 08:00 - 12:00 Uhr) 2 Hazards identification · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 3 H226 Flammable liquid and vapour. GHS08 health hazard STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. · Classification according to Directive 67/548/EEC or Directive 1999/45/EC *R10*: Flammable. · Information concerning particular hazards for human and environment: 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. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2)

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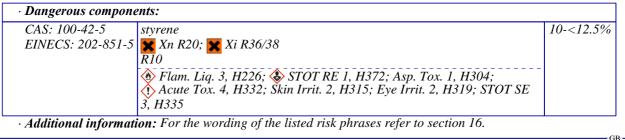
· Hazard pictog	(Contd. of page 1)
(*)	
$\forall$	
GHS02 GH	IS07 GHS08
• Signal word D	anger
• Hazard-detern styrene	nining components of labelling:
• Hazard statem	ents
	ble liquid and vapour.
H315 Causes s	kin irritation.
	erious eye irritation.
	lamage to organs through prolonged or repeated exposure.
· Precautionary	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+H	2353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+F	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional info	
	cording to CLP-Regulation 1.5.2.1., Labelling of packages where the contents do not exceed
125 ml, have b	· · · · ·
· 2.3 Other haza	urds
· Results of PBT	T and vPvB assessment
· <b>PBT:</b> Not appl	
• <b>vPvB:</b> Not app	licable.

# 3 Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

\*

· Description: Mixture of substances listed below with nonhazardous additions.



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### 4 First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### 7 Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

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# Safety data sheet

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## 8 Exposure controls/personal protection

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

#### · 8.1 Control parameters

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

### 100-42-5 styrene

WEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm Long-term value: 430 mg/m<sup>3</sup>, 100 ppm

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

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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

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

• Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance: Form:

Fluid

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	(Contd. of page 4
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 145 °C
0. 0 0	
· Flash point:	31 °C (DIN 53213)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	480 °C (DIN 51794)
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	8.9 Vol %
· Vapour pressure at 20 °C:	6 hPa
· Density at 20 °C:	1.767 g/cm <sup>3</sup> (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/w	ater): Not determined.
· Viscosity:	
Dynamic at 20 °C:	115000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	12.8 %
VOC (EC)	20.0 g/l
Solids content (weight-%):	87.2 %
• 9.2 Other information	No further relevant information available.

# 10 Stability and reactivity

· 10.1 Reactivity

\*

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide

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**11 Toxicological information** 

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

100-42-5 styrene				
Oral	LD50	5000 mg/kg (rat)		
Dermal	LD50	> 2000 mg/kg (rat)		

Inhalative LC50/4 h (Dämpfe) 11.8 mg/l (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

# 12 Ecological information

· 12.1 Toxicity

- *Aquatic toxicity:* No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) : hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

· 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# 13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances

· Uncleaned packaging:

• *Recommendation:* Disposal must be made according to official regulations.

· 14.1 UN-Number		
· ADR, IMDG, IATA	UN3269	
· 14.2 UN proper shipping name		
$\cdot ADR$	3269 POLYESTER RESIN KIT	
· IMDG, IATA	POLYESTER RESIN KIT	

Printing date 12.03.2014

Version number 32

Revision: 12.03.2014

Trade name: Repair-Kit / Filler 30 g

	(Contd. of page
· 14.3 Transport hazard class(es)	
· ADR	
· Class	3 (FT3) Flammable liquids.
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	111
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> </ul>	Warning: Flammable liquids.
· EMS Number:	F-E,S-D
• 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.
· Transport/Additional information:	
• <i>ADR</i>	
· Transport category	3
• Tunnel restriction code	Ε
· UN "Model Regulation":	UN3269, POLYESTER RESIN KIT, 3, III

# 15 Regulatory information

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

· National regulations:

Class	Share in %
NK	10-<25

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **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

H226 Flammable liquid and vapour.

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.

(Contd. on page 8)

GB

Printing date 12.03.2014

### Version number 32

Revision: 12.03.2014

Trade name: Repair-Kit / Filler 30 g

	(Contd. of page 7)
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
 D10	Flammable.
R10	
R20	Harmful by inhalation.
R36/38	8 Irritating to eyes and skin.
Abbre	viations and acronyms:
	eglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	tional Transport of Dangerous Goods by Rail)
	International Civil Aviation Organization
	ccord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
	e of Dangerous Goods by Road)
	International Maritime Code for Dangerous Goods
	nternational Air Transport Association
	Clobally Harmonized System of Classification and Labelling of Chemicals
	S: European Inventory of Existing Commercial Chemical Substances
	S: European List of Notified Chemical Substances
	hemical Abstracts Service (division of the American Chemical Society)
	Volatile Organic Compounds (USA, EU)
	Lethal concentration, 50 percent
	Lethal dose, 50 percent
^ Data	a compared to the previous version altered.
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# Safety data sheet according to 1907/2006/EC (REACH)

Printing date 23.05.2014

Rev. n. 3

Revision: 01.12.2012

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

· 1.1 Product identifier

#### Trade name: Repair-Kit / Hardener 8 g

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Dibenzoyl peroxide, paste Hardening agent/ Curing agent Catalyst
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: CRAMER GmbH Salzstrasse 8 A 85622 Feldkirchen (Gemany) Tel. +49 (0)89 99909 770 Fax. +49 (0)89 99909 7777 e-mail: info@cramer-gmbh.de www.cramer-gmbh.de
- · Further information obtainable from: Laboratory
- · 1.4 Emergency telephone number: Tel. +49 (0)89 99909 770 (Mo-Thursday 8:00-16:00, Friday 08:00-12:00)

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Org. Perox. EF H242 Heating may cause a fire. Aquatic Acute 1 H400 Very toxic to aquatic life. Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R36: Irritating to eyes. Xi: Sensitisina R43: May cause sensitisation by skin contact. O; Oxidising R7: May cause fire. N; Dangerous for the environment R50. Very toxic to aquatic organisms. · Information concerning particular hazards for human and environment: 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. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The Dibenzoyl Peroxide is classified as Oxidizing because it's strongly desensitized by organic liquids and/or inert solid materials and/or water. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms



· Signal word Warning

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## Trade name: Repair-Kit / Hardener 8 g

	nining components of labelling:
dibenzoyl pero	
· Hazard statem	
0	nay cause a fire.
	serious eye irritation.
	se an allergic skin reaction.
	c to aquatic life.
· Precautionary	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water/
P411+P235	Store at temperatures not exceeding 30 $^{\circ}$ . Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional infor	mation:
Exemptions acco been used.	ording to CLP-Regulation 1.5.2.1., Labelling of packages where the contents do not exceed 125 ml, have
2.3 Other hazard	S
· Results of PBT	and vPvB assessment
· PBT: Not applie	cable.
vPvB: Not appl	licable.
	and a state of the former of the second s
SECTION 3: C	Composition/information on ingredients

#### 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

#### · Components

· Components.		
CAS: 94-36-0	dibenzoyl peroxide	45-52%
EINECS: 202-327-6	🗙 Xi R36; 🗙 Xi R43; 🌃 E R3; 🔥 O R7; 🌄 N R50	
Index number: 617-008-00-0	🔗 🚯 Org. Perox. B, H241; 🚯 Aquatic Acute 1, H400; 🚯 Eye Irrit. 2,	
Reg.nr.: 01-2119511472-50-XXXX	H319; Skin Sens. 1, H317	
 CAS: 131-11-3	dimethyl phthalate	25-35%
EINECS: 205-011-6	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119437229-36-XXXX		

· Additional information: For the wording of the listed risk phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# SECTION 5: Firefighting measures

## · 5.1 Extinguishing media

## · Suitable extinguishing agents:

*CO*<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

#### $\cdot$ 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

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Carbonic anhydride (CO <sub>2</sub> ) Carbon monoxide (CO) Benzoic acid Benzene Biphenyl Phenyl benzoate Under certain fire conditions, traces of other toxic gases cannot be excluded. • <b>5.3 Advice for firefighters</b> • <b>Protective equipment:</b> Do not inhale explosion gases or combustion gases. Mouth respiratory protective device. Wear suitable fire protection equipment. • <b>Additional information</b> Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.	(Contd. of page 2)
SECTION 6: Accidental release measures	
• <i>6.1 Personal precautions, protective equipment and emergency procedures</i> Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep away from ignition sources. Ensure adequate ventilation	
<ul> <li>6.2 Environmental precautions:</li> <li>Do not allow to enter sewers/ surface or ground water.</li> <li>Inform respective authorities in case of seepage into water course or sewage system.</li> </ul>	
<ul> <li>6.3 Methods and material for containment and cleaning up:</li> <li>Pick up mechanically.</li> <li>Do not allow to dry out</li> <li>Ensure adequate ventilation.</li> </ul>	
• <i>6.4 Reference to other sections</i> See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
SECTION 7: Handling and storage	
<ul> <li><b>7.1 Precautions for safe handling</b> Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. Keep away from heat and direct sunlight. Protect against electrostatic charges.</li> <li><b>Information about fire - and explosion protection:</b> Protect from heat. Keep ignition sources away - Do not smoke. Substance/product is oxidizing when dry.</li> </ul>	
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original receptacle.</li> <li>Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.</li> <li>Further information about storage conditions: Keep container tightly sealed. Prevent from drying out. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.</li> </ul>	
The product, stored in the original containers, away from sunlight, maintains its properties for 12 r delivery date.	nonths from the
· 7.3 Specific end use(s) No further relevant information available.	(Contd. on page 4)

(Contd. of page 2)

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(Contd. of page 3)

SECTION 8: Exposure controls/personal pro	tection
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### · Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters				
Ingredients with limit values that require monitoring at the workplace:				
94-36-0 dibenzoyl peroxide				
-		n) Long-term value: 5 mg/m <sup>3</sup>		
PEL (USA)		Long-term value: 5 mg/m <sup>3</sup>		
REL (USA	,	Long-term value: 5 mg/m <sup>3</sup>		
TLV (USA)		Long-term value: 5 mg/m <sup>3</sup>		
		/I phthalate		
WEL (Grea	al Britai	n) Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>		
PEL (USA)	)	Long-term value: 5 mg/m <sup>3</sup>		
REL (USA		Long-term value: 5 mg/m <sup>3</sup>		
TLV (USA)		Long-term value: 5 mg/m <sup>3</sup>		
DNEL				
		/l peroxide		
Oral	-	Long term exposure- Systemic effects	1.65 ma/ka bw/d (general population)	
Dermal		Long term exposure- Systemic effects		
			6.6 mg/kg bw/d (workers)	
Inhalative	DNEL/	Long term exposure- Systemic effects		
			11.75 mg/m <sup>3</sup> (workers)	
131-11-3 c	dimethy	/l phthalate	<b>2</b> ( )	
Oral	DNEL/	Long term exposure- Systemic effects	25 mg/kg bw/d (general population)	
Dermal	DNEL/	Long term exposure- Systemic effects	60 mg/kg bw/d (general population)	
			100 mg/kg bw/d (workers)	
Inhalative	DNEL/	Long term exposure- Systemic effects	86.96 mg/m³ (general population)	
			293.86 mg/m³ (workers)	
· PNEC	s			
94-36-0 di	ibenzoy	/l peroxide		
PNEC/ ST	P	0.35 mg/l (sewage treatment plant)		
PNEC/ sec	diment	0.338 mg/kg dw (freshwater)		
		0.0338 mg/kg dw (marine water)		
PNEC/ soi	1	0.0758 mg/kg dw (-)		
PNEC/aqu		0.602 mg/l (freshwater)		
		0.602 mg/l (intermittent releases)		
		0.0602 mg/l (marine water)		
		/l phthalate		
PNEC/ ST		4 mg/l (-)		
		1.403 mg/kg dw (freshwater)		
PNEC/aqu		0.192 mg/l (freshwater)		
		0.39 mg/l (intermittent releases)		
0.0192 mg/l (marine water)  • Additional information: The lists valid during the making were used as basis.				
		· ·	king were used as basis.	
• Persona • Genera The usu Do not o Wash h Avoid c Immedia	<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Do not eat, drink, smoke or sniff while working. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing</li> </ul>			
Immediately remove all soiled and contaminated clothing Do not inhale gases / fumes / aerosols.				

Keep away from foodstuffs, beverages and feed.

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#### Trade name: Repair-Kit / Hardener 8 g

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
 Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Neoprene gloves

Nitrile rubber, NBR

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** 

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection:



Tightly sealed goggles

· Body protection: Light weight protective clothing

SECTION 9: Physical and che	emical properties
9.1 Information on basic physical a	nd chemical properties
- General Information	
· Appearance:	
· Form:	Pasty
· Colour:	Different according to colouring
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	May cause fire.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
	SADT = 50 $^{\circ}$ C The SADT (self-accelerating decomposition temperature) is an experimentally determined temperature at which the product, in its conventional packaging wil
	decompose in a selfaccelerating reaction.
· Self-igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.1 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Evaporation rate	Not determined. (Contd. o

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#### Trade name: Repair-Kit / Hardener 8 g

		(Contd. of page 5)
<ul> <li>Solubility in / Miscibility with</li> <li>water:</li> </ul>	Insoluble.	
· Partition coefficient (n-octan	ol/water): Not determined.	
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.	
· 9.2 Other information	No further relevant information available.	

# SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Exothermic thermal decomposition.

Visible decomposition with spontaneous ignition on heating.

SADT = 50 ℃

SADT (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport.

A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT.

Contact with incompatible substances can cause decomposition at or below the SADT.

#### · 10.3 Possibility of hazardous reactions

Reacts with reducing agents. Reacts with heavy metals. Reacts with alkali, amines and strong acids.

• 10.4 Conditions to avoid No further relevant information available.

#### · 10.5 Incompatible materials:

Reducing agents like amines, acids, alkali, compounds based on heavy metals (p.e. accelerators)

#### · 10.6 Hazardous decomposition products:

Benzoic acid Benzene Biphenyl Phenyl benzoate

# SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

· Acute toxicity:

#### · LD/LC50 values relevant for classification:

94-36-0 dibenzoyl peroxide Oral LD0 5000 mg/kg (rat) Inhalative LC0 24.3 mg/l (rat)

#### 131-11-3 dimethyl phthalate

Oral LD50 >2400 mg/kg (rat)

Dermal LD50 > 10000 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

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

Irritant

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## Trade name: Repair-Kit / Hardener 8 g

SECTION 12: Ecological information · 12.1 Toxicity Aquatic toxicity: No further relevant information available. 94-36-0 dibenzoyl peroxide EC50 / 48h 0.110 mg/l (crustacea - Daphnia magna) (OECD TG 202) ErC50 / 72h 0.0711 mg/l (algae - Pseudokirchneriella subcapitata) (OECD TG 201) LC50 / 96h 0.0602 mg/l (fish - Oncorhynchus mykiss) (OECD TG 203) M Factor 10 (-) 131-11-3 dimethyl phthalate EC50 / 48h 52 mg/l (daphnia) ErC50 / 72h 259.76 mg/l (algae) LC50 / 96h 39 mg/l (fish) 12.2 Persistence and degradability No further relevant information available. 94-36-0 dibenzoyl peroxide Ready Biodegradability in water / 28d 68 % (-) (OCDE TGD301 D) 131-11-3 dimethyl phthalate Ready Biodegradability in water / 28d >91 % (-) 12.3 Bioaccumulative potential No further relevant information available. 94-36-0 dibenzoyl peroxide Log Kow 3.2 (-) (OECD TG 117) 131-11-3 dimethyl phthalate BCF 57 (fish) Log Kow 2.12 (-) · 12.4 Mobility in soil No further relevant information available. 94-36-0 dibenzoyl peroxide Log Koc 3.8 (-) (OCDE TGD 121) 131-11-3 dimethyl phthalate Log Koc 1.57 (-) Ecotoxical effects: · Remark: Very toxic for fish Additional ecological information: - General notes: Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 12.5 Results of PBT and vPvB assessment • **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

(Contd. on page 8)

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# Trade name: Repair-Kit / Hardener 8 g

Uncleaned packaging:
 Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informa	tion
14.1 UN-Number · ADR, IMDG, IATA	UN3108
• 14.2 UN proper shipping name • ADR • IMDG • IATA	3108 ORGANIC PEROXIDE TYPE E, SOLID ORGANIC PEROXIDE TYPE E, SOLID, MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, SOLID
14.3 Transport hazard class(es)	
· Class · Label	5.2 Organic peroxides. 5.2
· IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: • Marine pollutant:	Yes Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Organic peroxides. - F-J,S-R
14.7 Transport in bulk according to Ani MARPOL73/78 and the IBC Code	nex II of Not applicable.
· Transport/Additional information:	
If the catalyst (organic peroxi III), can be considered as pol Description of goods: <u>UN 326</u> Class: 3 Limited Quantities (LQ): 5 L Packaging Group: III Transport category: 3 Tunnel restriction code: E EMS Number: F-E, S-D	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	500 g 2 D
	UN3108, ORGANIC PEROXIDE TYPE E, SOLIL

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# SECTION 15: Regulatory information

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

### · National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

The data and the informations reported in the present Material Safety Data Sheet are consistent to the Directives 1967/548/EEC, 1999/45/EC, 76/769/EEC, to the Regulation 1907/2006/EC (REACH) and 1272/2008/CE (CLP) and to what prescribed by the in force regulation in matter of classification, packaging and labelling of dangerous substances and preparations. Finally, users should check and comply with specific national and local laws in matters of hazardous activities and environmental protection (e.g.: gassy, liquid and solid emissions) not specifically covered in this document. Compilation of Safety Data Sheet: Reg.UE n.453/2010 (amending Reg.EC n.1907/2006, Annex II)

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

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

#### · Relevant phrases

- H241 Heating may cause a fire or explosion.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R7 May cause fire.

#### · Contact: Cramer GmbH

#### Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Classification, Labelling and Packaging TLV: Threshold Limit Value TLV-TWA: Threshold Limit Value - Time Weighted Average TLV-STEL: Threshold Limit Value - Short Term Exposure Limit IOELV: Indicative Occupational Exposure Limit Value BEI: Biological Exposure Indices LD50: Lethal dose, 50 percent LC50: Lethal Concentration, 50 percent Kow: Octanol-Water partition coefficient BCF: BioConcentration Factor LC50: LC50: Lethal Concentration, 50 percent EC50: Effective Concentration, 50 percent ErC50: Effective Concentration, 50 percent, growth rate WGK: Wassergefährdungsklasse - Water hazard class [Germany] 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 ACGIH: American Conference of Governmental Industrial Hygienists [USA] 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

• \* Data compared to the previous version altered.

GB