

Printing date 15.06.2011

Version number 7

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

· Product identifier

· Trade name: 4CR 0407 Universal-Härter extra lang

- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation Hardening agent/ Curing agent

· Details of the supplier of the safety data sheet · Manufacturer/Supplier: 4CR Vertriebsgesellschaft mbH Donaustraße 2 94469 Deggendorf Tel.: +49 (0) 4841/665015

Fax: +49 (0) 4841/665016

e-Mail: order@4cr.de

• Emergency telephone number: +49(0)700 24112112 (CRM)

2 Hazards identification

· Classification of the substance or mixture

Clussification of	The substance of mixture
• Classification a	ccording to Directive 67/548/EEC or Directive 1999/45/EC ful
R20:	Harmful by inhalation.
Xi; Irritan	t
R37:	Irritating to respiratory system.
Xi; Sensiti	sing
<i>R43</i> :	May cause sensitisation by skin contact.
R10-52/53-66:	Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.
•	cerning particular hazards for human and environment:
The product has	s 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.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- · Code letter and hazard designation of product: Xn Harmful
- · Hazard-determining components of labelling: Hexamethylene diisocyanate, oligomers

· Risk phrases:

- 10 Flammable.
- 20 Harmful by inhalation.
- 37 Irritating to respiratory system.
- May cause sensitisation by skin contact. 43
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Repeated exposure may cause skin dryness or cracking. 66

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· Safety phrases:

- Keep out of the reach of children. 2
- Q Keep container in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 24/25 Avoid contact with skin and eyes.
- 37 Wear suitable gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- · Special labelling of certain preparations:
- Contains isocyanates. See information supplied by the manufacturer Restricted to professional users.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers	25-50%
NLP: 500-060-2	🗙 Xn R20; 🗙 Xi R37; 🗙 Xi R43	
	(1) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-25%
EINECS: 203-603-9	R10	
	🚸 Flam. Liq. 3, H226	
CAS: 123-86-4	n-butyl acetate	<20.0%
EINECS: 204-658-1	R10-66-67	
	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
CAS: 112-07-2	2-butoxyethyl acetate	<20.0%
EINECS: 203-933-3	Xn R20/21	
	🚯 Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	<20.0%
EINECS: 265-199-0	🗙 Xn R65; 🗙 Xi R37; 🌄 N R51/53	
	<u>R1</u> 0-66-67	
Additional information	ion: For the wording of the listed risk phrases refer to section 16	

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

4 First aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

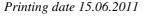
· After inhalation:

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.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

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- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN)
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

 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. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diate earth) and place in a suitable container. Decontaminate immediately with suitable mixture (flammable): - as such usable (inflammatory!): water # 45 Vol.% ethanol or isopropanol 50 Vol.% ammonia solution (Density= 0.88) 5 Vol.% Add the same decontaminant to any residues and allow to stand for several days in an non-sealed until no further reaction occurs. Once this stage is reached, close the container and dispose of in ac with the waste regulations (see Section 13). 	Personal precautions, protective equipment Wear protective equipment. Keep unprotect	
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	•	° · · ·
Reference to other sections	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

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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cording to 1907/2006/EC, Article



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Prevent formation of aerosols. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision.

• *Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*

· 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:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.

- \cdot Further information about storage conditions:
- Keep container tightly sealed.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

· Storage class: 3

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

· Control parameters

\cdot Ingredients with limit values that require monitoring at the workplace:	
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28182-81-2 Hexamethylene diisocyanate, oligomers

EBW() Short-term value: 0.5 mg/m³

exposition evaluation valu TRGS 430 (EBW)

108-65-6 2-methoxy-1-methylethyl acetate

WEL () Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

123-86-4 n-butyl acetate

WEL () Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

112-07-2 2-butoxyethyl acetate

WEL () Short-term value: 50 ppm Long-term value: 20 ppm Sk

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

· Exposure controls

· Personal protective equipment:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

· 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.

Do not inhale gases / fumes / aerosols.

• 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.

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Safety data sheet

according to 1907/2006/EC, Article 31

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· 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

Information on basic physical and cl	hemical properties
General Information	
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124°C
Flash point:	38°C (DIN 53213)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	280°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:	0.7 Vol %
Upper:	10.8 Vol %
Vapour pressure at 20°C:	10.7 hPa



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· Density at 20°C:	0.989 g/cm ³ (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.	
· Segregation coefficient (n-octanol/w	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20°C:	13 s (DIN 53211/4)	
· Solvent content:		
Organic solvents:	63.9 %	
VÕC (EC)	632.7 g/l	
Solids content (weight-%):	36.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

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

Possible in traces.

Nitrogen oxides

Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid)

- Carbon monoxide
- Nitrogen oxides (NOx)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

112-07-2 2-butoxyethyl acetate

Oral LD50 2400 mg/kg (rat)

Dermal LD50 1580 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 >2000 mg/kg (rat)

LD50 Dermal >2000 mg/kg (rab) Inhalative LC50/4 h >10.2 mg/l (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

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Safety data sheet

according to 1907/2006/EC, Article 31



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· 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: Harmful

Irritant

12 Ecological information

· Toxicity

- · Acquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · 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.

Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· 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 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class:	3 (F1) Flammable liquids.
· Danger code (Kemler):	30
· UN-Number:	1263
· Packaging group:	III
· Hazard label:	3
\cdot UN proper shipping name	: 1263 PAINT RELATED MATERIAL, special provision 640E

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Tunnel restriction code	D/E	
• Maritime transport IMD	G:	
· IMDG Class:	3	
· UN Number:	1263	
· Label	3	
• Packaging group:	III	
• EMS Number:	F- E , S - E	
• Marine pollutant:	No	
Proper shipping name:	PAINT RELATED MATERIAL	
• Air transport ICAO-TI ar	nd IATA-DGR:	
· ICAO/IATA Class:	3	
· UN/ID Number:	1263	
· Label	3	
• Packaging group:	III	
	PAINT RELATED MATERIAL	
Proper shipping name:		

15 Regulatory information

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

· National regulations:

· Information about limitation of use:

112-07-2 2-butoxyethyl acetate

Class	Share in %
NK	50-100

· 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.
- H312 Harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

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R10 Flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

Irritating to respiratory system. R37

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking. R66

R67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Laboratory

· Contact: Ingo Bolls

 \cdot * Data compared to the previous version altered.