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



Printing date 12.10.2013

Revision: 14.08.2012

 Product and Company Identification Product identifier HARDENERS Trade name: H082 2K L.E. HARDENER FAST Article number: H082 Relevant identified uses of the substance or mixture and uses advised against Use as paint hardner Application of the substance / the preparation refer to the relevant Technical Data Sheet Optails of the supplier of the safety data sheet General Plant Co. S.A.L Safety Department- For further information, please consult our Internet site www.generalpaint.biz ManufacturerSupplier: General Plant Co. S.A.L Safety Department- For Lurther information, please consult our Internet site www.generalpaint.biz ManufacturerSupplier: General Plant Co. S.A.L TURBO P.O. Box 7823 Beirut EEBMON Info @generalpaint.biz Further information obtainable from: Product safety department Entergency telephone number: During normal opening times: (961) 9 925990 /1/2 2 Hazards Identification Classification of the substance or mixture Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xr; Harmful R2021: Harmful by inhalation and in contact with skin. Xi; Irritant R36/37/38: Irritating to eyes, respiratory system and skin. Xi; Irritant R42: May cause sensitisation by inhalation. 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 is according to Uguidelines: The product has been labelled due to the calculation procedure of the "General Classification guideline for the preparations of the EU" in the latest valid version. Classification is according to EU guidelines: The product has been classi		
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 Hazard-determining components of labelling: Isophorone Diisocyanate homopolymer Homopolymer of hexamethylene diisocyanate

· Risk phrases:

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42 May cause sensitisation by inhalation.

· Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 56 Dispose of this material and its container to hazardous or special waste collection point.
- 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

· Special labelling of certain preparations:

- Contains isocyanates. See information supplied by the manufacturer
- · 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:		
	opolymer of hexamethylene diisocyanate n R20/21; 🞇 Xi R36/37/38	50-100%
110-43-0 hepta Xr R10	an-2-one n R20/22	10-25%
1330-20-7 xylen Xr R10	ne n R20/21; 🗙 Xi R38	2.5-10%
	norone Diisocyanate homopolymer i R36/37/38; 🔀 Xn R42	2.5-10%
	methylene-di-isocyanate R23; 🗙 Xn R42/43; 🞇 Xi R36/37/38	½ 2.5%
 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.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- 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. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 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 No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: 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
 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. Prevent formation of aerosols.
- 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: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

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

· Control parameters

Ingredients with limit values that require monitoring at the workplace:

110-43-0 heptan-2-one

IOELV (EU)	Short-term value: 475 mg/m ³ , 100 ppm
	Long-term value: 238 mg/m³, 50 ppm
	Skin

1330-20-7 xylene

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

· 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:



Protective gloves

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

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

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

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

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9 Physical and chemical prope	erties
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
 Odour: Odour threshold: 	Characteristic Not determined.
· pH-value:	Not determined.
•	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined. 124 °C
Boiling point/Boiling range:	
· Flash point:	25 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 ℃
 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:	1.0 Vol %
Upper:	7.5 Vol %
 Vapour pressure at 20 °C: 	10.7 hPa
· Density at 20 °C:	1.008 g/cm³
· 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/wat	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	38.1 %
VOC (EC)	384.0 g/l
Solids content:	61.8 %
· 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.

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- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values relevant for classification:
- 110-43-0 heptan-2-one
 - LD50 1670 mg/kg (rat) Oral
 - Dermal LD50 12600 mg/kg (rabbit)
- 1330-20-7 xylene

LD50 4300 mg/kg (rat) Oral

Dermal LD50 2000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through inhalation.
- · 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
- · Aquatic 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.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): 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.

- 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.

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

Transport information	
UN-Number ADR, IMDG, IATA	UN1263
UN proper shipping name ADR IMDG, IATA	1263 PAINT PAINT
Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group ADR, IMDG, IATA	<i>III</i>
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E, <u>S-E</u>
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
	-
Transport category Tunnel restriction code	3L 3 D/E

15 Regulatory information

· 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

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20/22	Harmful by inhalation and if swallowed.
R23	Toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R42	May cause sensitisation by inhalation.

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R42/43 May cause sensitisation by inhalation and skin contact.

· Department issuing MSDS: Product safety department

· Contact: Ms. Topaljikian

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