

Printing date 12.10.2013

Revision: 14.08.2012

	any Identification
• Product identifier HARI	
· Trade name: <u>H060 2K H</u>	ARDENER NORMAL
Use as paint hardener	s of the substance or mixture and uses advised against tance / the preparation refer to the relevant Technical Data Sheet
• Details of the supplier o General Paint Co. S.A.L -Safety Department-	f the safety data sheet
For further information, pl www.generalpaint.biz Manufacturer/Supplier: General Paint Co. SAL TURBO P.O. Box 7623 Beirut LEBANON info@generalpaint.biz	lease consult our Internet site
	ainable from: Product safety department number: During normal opening times: (961) 9 925990 /1/2
P. Hazards identification	on
· Classification of the sul	bstance or mixture
Xn; Harmful	g to Directive 67/548/EEC or Directive 1999/45/EC
R36/37/38: Irritating to	
	eyes, respiratory system and skin.
R10: Flammable Information concerning The product has to be la guideline for preparations	particular hazards for human and environment:
R10: Flammable Information concerning The product has to be la guideline for preparations Classification system:	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classification of the EU" in the latest valid version.
R10: Flammable Information concerning The product has to be la guideline for preparations Classification system: The classification is acco	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classificati
R10:FlammableInformation concerningThe product has to be laguideline for preparationsClassification system:The classification is accoliterature data.Label elementsLabelling according to la	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classification of the EU" in the latest valid version. Fording to the latest editions of the EU-lists, and extended by company a EU guidelines:
 R10: Flammable Information concerning The product has to be la guideline for preparations Classification system: The classification is accordited by the system Label elements Labelling according to la The product has been contents 	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classification of the EU" in the latest valid version. Furding to the latest editions of the EU-lists, and extended by company a EU guidelines: lassified and marked in accordance with EU Directives / Ordinance of
 R10: Flammable Information concerning The product has to be la guideline for preparations Classification system: The classification is accordite attaction Label elements Labelling according to la The product has been contactions 	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classification of the EU" in the latest valid version. Furding to the latest editions of the EU-lists, and extended by company a EU guidelines: lassified and marked in accordance with EU Directives / Ordinance of
 R10: Flammable Information concerning The product has to be la guideline for preparations Classification system: The classification is accordite atta. Label elements Labelling according to la The product has been of Hazardous Materials. Code letter and hazard of the transmission of transmission of the transmission of tra	particular hazards for human and environment: abelled due to the calculation procedure of the "General Classification of the EU" in the latest valid version. ording to the latest editions of the EU-lists, and extended by company a EU guidelines: lassified and marked in accordance with EU Directives / Ordinance of designation of product:



Printing date 12.10.2013

Revision: 14.08.2012

Trade name: H060 2K HARDENER NORMAL

(Contd. of page 1)

- · Risk phrases:
- 10 Flammable.

20/21 Harmful by inhalation and in contact with skin. 36/37/38 Irritating to eyes, respiratory system and skin.

· Safety phrases:

2 Keep out of the reach of children.

36/37 Wear suitable protective clothing and gloves.

- 46 If swallowed, seek medical advice immediately and show this container or label.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

· 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:

Dungerous components.	
28182-81-2 Homopolymer of hexamethylene diisocyanate	25-50%
🗙 Xn R20/21; 🗙 Xi R36/37/38	
1330-20-7 xylene	25-50%
🗙 Xn R20/21; 🗙 Xi R38 R10	
Additional information: For the wording of the listed rick phrases refer to see	ation 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.

· After inhalation:

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

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

(Contd. on page 3)

LB



Printing date 12.10.2013

Revision: 14.08.2012

Trade name: H060 2K HARDENER NORMAL

- (Contd. of page 2) • 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.

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:

1330-20-7 xylene

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

• 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.

(Contd. on page 4)

LB



Printing date 12.10.2013

Revision: 14.08.2012

(Contd. of page 3)

Trade name: H060 2K HARDENER NORMAL

· 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

9 Physical and chemical properties

 General Information Appearance: 	
Form:	Liquid
Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 124 °C
· Flash point:	25 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 °C
· 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:	1.1 Vol %

LB



Printing date 12.10.2013

Revision: 14.08.2012

Trade name: H060 2K HARDENER NORMAL

		(Contd. of page
Upper:	7.5 Vol %	
· Vapour pressure at 20 °C:	10.7 hPa	
· Density at 20 °C:	0.98 g/cm ³	
· 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:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	52.2 %	
VŎC (EC)	511.3 g/l	
Solids content:	47.6 %	
· 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: No dangerous decomposition products known.

1 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral LD50 4300 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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

(Contd. on page 6)

IB



Printing date 12.10.2013

Revision: 14.08.2012

Trade name: H060 2K HARDENER NORMAL

(Contd. of page 5)

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.

· Uncleaned packaging:

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

UN-Number		
ADR, IMDG, IATA	UN1263	
UN proper shipping name		
ADR	1263 PAINT	
IMDG, IATA	PAINT	
Transport hazard class(es)		
ADR, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
Packing group		
	<i>III</i>	
ADR, IMĎG, IÀTA	111	
Packing group ADR, IMDG, IATA Environmental hazards: Marine pollutant:	III No	
ADR, IMDG, IATA Environmental hazards:		
ADR, IMDG, IATA Environmental hazards: Marine pollutant:	No	



Printing date 12.10.2013

Revision: 14.08.2012

Trade name: H060 2K HARDENER NORMAL

		(Contd. of page 6
 Transport in bulk according to An MARPOL73/78 and the IBC Code 	nex II of Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	5L	
· Transport category	3	
· Tunnel restriction code	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.

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

· Department issuing MSDS: Product safety department

· Contact: Ms. Topaljikian