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Safety Data Sheet

acc. to OSHA HCS

Printing date 01/28/2025

Reviewed on 12/05/2024

1 Identification

· Product identifier

- · Trade name: H81 EASY PRIMER HARDENER
- · Article number: H81
- · Application of the substance / the mixture refer to the relevant Technical Data Sheet
- · Details of the supplier of the safety data sheet

• *Manufacturer/Supplier:* General Paint Co. SAL P.O. Box 7623 Beirut LEBANON info@hymax.biz

- · Information department: Product Safety Department
- Emergency telephone number: 1-800-535-5053 contract number (89244)

2 Hazard(s) identification

· Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. Carcinogenicity 2 GHS07 Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Sensitization - Skin 1 Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2) LIS



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Trade name: H81 EASY PRIMER HARDENER

(Contd. of page 1) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Aromatic Polyisocyanate n-butyl acetate m-tolylidene diisocyanate ethyl acetate · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. (Contd. on page 3)



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Trade name: H81 EASY PRIMER HARDENER

| (Contd. of pag | je 2) |
|---|-------|
| If eye irritation persists: Get medical advice/attention. | |
| If experiencing respiratory symptoms: Call a poison center/doctor. | |
| Wash contaminated clothing before reuse. | |
| In case of fire: Use CO2, powder or water spray to extinguish. | |
| Store in a well-ventilated place. Keep container tightly closed. | |
| Store in a well-ventilated place. Keep cool. | |
| Store locked up. | |
| Dispose of contents/container in accordance with local/regional/national/international regulations. | l |
| Classification system: | |
| · NFPA ratings (scale 0 - 4) | l |
| | l |
| Health = 2 | |
| Fire = 3 | |
| 2 0 Reactivity = 0 | |
| · HMIS-ratings (scale 0 - 4) | |
| HEALTH 2 Health = 2 | l |
| | |
| FIRE 3 Fire = 3 | |
| REACTIVITY 0 Reactivity = 0 | |
| · Other hazards | |
| · Results of PBT and vPvB assessment | l |
| · PBT: Not applicable. | |
| · vPvB: Not applicable. | l |
| | |

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

| 123-86-4 | n-butyl acetate | >25- <i>≤</i> 50% |
|-------------|---|--------------------|
| 1330-20-7 | xylene | >10- <i>≤</i> 25% |
| 53317-61-6 | aromatic poliyisocyanate | >10- <i>≤</i> 25% |
| 528598-79-0 | Aromatic Polyisocyanate | >10- <i>≤</i> 25% |
| 141-78-6 | ethyl acetate | >2.5- <i>≤</i> 10% |
| 28182-81-2 | Homopolymer of hexamethylene diisocyanate | <i>≤</i> 2.5% |
| 26471-62-5 | m-tolylidene diisocyanate | <i>≤</i> 2.5% |

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
 Supply fresh air and to be s
- 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. 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 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 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: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Wear protective equipment. Keep unprotected persons away.
 Favirance and a management of a material persons are and a material persons.
- · 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 section 13. Ensure adequate ventilation.
- 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.

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| Protective | Action Criteria for Chemicals | (Contd. of page |
|------------|---|-----------------------|
| PAC-1: | | |
| 123-86-4 | n-butyl acetate | 5 ppm |
| 1330-20-7 | xylene | 130 ppm |
| 141-78-6 | ethyl acetate | 1,200 ppn |
| 28182-81-2 | Homopolymer of hexamethylene diisocyanate | 7.8 mg/m ³ |
| 26471-62-5 | m-tolylidene diisocyanate | 0.02 ppm |
| 822-06-0 | hexamethylene-di-isocyanate | 0.018 ppn |
| PAC-2: | | |
| 123-86-4 | n-butyl acetate | 200 ppm |
| 1330-20-7 | xylene | 920* ppm |
| 141-78-6 | ethyl acetate | 1,700 ppn |
| 28182-81-2 | Homopolymer of hexamethylene diisocyanate | 2.9 mg/m3 |
| 26471-62-5 | m-tolylidene diisocyanate | 0.083 ppn |
| 822-06-0 | hexamethylene-di-isocyanate | 0.2 ppm |
| PAC-3: | | |
| 123-86-4 | n-butyl acetate | 3000* ppm |
| 1330-20-7 | xylene | 2500* ppm |
| 141-78-6 | ethyl acetate | 10000** ppn |
| 28182-81-2 | Homopolymer of hexamethylene diisocyanate | 17 mg/m3 |
| 26471-62-5 | m-tolylidene diisocyanate | 0.51 ppm |
| 822-06-0 | hexamethylene-di-isocyanate | 3 ppm |

7 Handling and storage

· Handling:

- Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. • Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

• Information about storage in one common storage facility: Not required.

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· Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Storage class: 3

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

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

| 123- | 36-4 n-butyl acetate | |
|------|--|--------------------|
| PEL | Long-term value: 710 mg/m³, 150 ppm | |
| REL | Short-term value: 950 mg/m³, 200 ppm | |
| | Long-term value: 710 mg/m³, 150 ppm | |
| TLV | Short-term value: 150 ppm | |
| | Long-term value: 50 ppm | |
| | -20-7 xylene | |
| PEL | Long-term value: 435 mg/m³, 100 ppm | |
| REL | Short-term value: 655 mg/m ³ , 150 ppm | |
| | Long-term value: 435 mg/m ³ , 100 ppm | |
| TLV | Long-term value: 20 ppm | |
| | BEI, A4 | |
| | 78-6 ethyl acetate | |
| PEL | Long-term value: 1400 mg/m³, 400 ppm | |
| REL | Long-term value: 1400 mg/m³, 400 ppm | |
| TLV | Long-term value: 400 ppm | |
| 2647 | 1-62-5 m-tolylidene diisocyanate | |
| PEL | Ceiling limit value: 0.14 mg/m³, 0.02 ppm | |
| REL | LFC | |
| TLV | Short-term value: (0.14) NIC-0.021* mg/m³, (0.02) NIC-0.003* ppm | |
| | Long-term value: (0.036) NIC-0.007* mg/m ³ , (0.005) NIC-0.001* ppm | |
| | *(IFV) SEN; NIC-Skin; Å3 | |
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| | | |



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(Contd. of page 6) · Ingredients with biological limit values: 1330-20-7 xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids · Additional information: The lists that were valid during the creation 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. Store protective clothing separately. Avoid contact with the eyes and skin. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · 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. (Contd. on page 8) US

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

| General Information | |
|----------------------------------|--|
| Appearance: | |
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Characteristic |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 75 °C (167 °F) |
| Flash point: | 5 °C (41 °F) |
| Flammability: | Highly flammable. |
| Auto igniting: | 315 °C (599 °F) |
| Decomposition temperature: | Not determined. |
| Ignition temperature: | Product is not selfigniting. |
| Danger of explosion: | Product is not explosive. However, formation of explosive ail vapor mixtures are possible. |
| Explosion limits: | |
| Lower: | 1.2 Vol % |
| Upper: | 7.5 Vol % |
| Vapor pressure at 20 °C (68 °F): | 10.7 hPa (8 mm Hg) |
| Density at 20 °C (68 °F): | 1.04275 g/cm³ (8.70175 lbs/gal) |
| Relative density | Not determined. |
| Vapor density | Not determined. |
| Evaporation rate | Not determined. |

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| | ((| Contd. of page |
|---|--|----------------|
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix. | |
| · Partition coefficient (n-octanol/ | water): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 65.0 % | |
| Coating VOC content: | 65.02 % | |
| 5 | 678.0 g/l / 5.66 lb/gal | |
| Material VOC content: | 678.0 g/l / 5.66 lb/gal | |
| Solids content: | 44.4 % | |
| · Other information | No further relevant information available. | |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · 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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.

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- Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful
- Irritant

· Carcinogenic categories

| • | ational Agency for Research on Cancer) | |
|---|--|----|
| 1330-20-7 | xylene | 3 |
| 528598-79-0 | Aromatic Polyisocyanate | 2B |
| 26471-62-5 | m-tolylidene diisocyanate | 2B |
| · NTP (National Toxicology Program) | | |
| | Aromatic Polyisocyanate | R |
| 26471-62-5 | m-tolylidene diisocyanate | R |
| · OSHA-Ca (Occupational Safety & Health Administration) | | |
| None of the ir | ngredients is listed. | |

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior 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 (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.

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

· Uncleaned packagings:

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

4 Transport information

| Paint related material 1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL |
|---|
| NOT APPLICABLE |
| 3 Flammable liquids 3 |
| |
| 3 Flammable liquids 3 |
| Void |
| No |
| Warning: Flammable liquids |
| - |

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| | (Contd. of page 1 |
|---|---|
| · EMS Number: · Stowage Category | F-E, <u>S-E</u> B |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | Il of Not applicable. |
| · Transport/Additional information: | |
| · DOT · Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| · ADR · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1263 PAINT RELATED MATERIAL, 3 |

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

| Section 35 | 5 (extremely hazardous substances): |] |
|--------------------------------|---------------------------------------|----------|
| None of the | e ingredients is listed. |] |
| · Section 31 | 3 (Specific toxic chemical listings): | 1 |
| 1330-20 | -7 xylene | 1 |
| 528598-79 | -0 Aromatic Polyisocyanate | 1 |
| 26471-62 | -5 <i>m</i> -tolylidene diisocyanate | 1 |
| 822-06 | -0 hexamethylene-di-isocyanate | |
| · TSCA (Tox | vic Substances Control Act): |] |
| All compon | ents have the value ACTIVE. | |
| · Hazardous | s Air Pollutants |] |
| 1330-20-7 | xylene | 1 |
| 822-06-0 | hexamethylene-di-isocyanate | 1 |
| | (Contd. on page 13 | <i>'</i> |
| | | JS |

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| · Proposition | 65 | (Contd. of page 12 |
|---------------|--|--------------------|
| • | nown to cause cancer: | |
| 528598-79-0 | Aromatic Polyisocyanate | |
| 26471-62-5 | m-tolylidene diisocyanate | |
| · Chemicals k | nown to cause reproductive toxicity for females: | |
| None of the i | ngredients is listed. | |
| · Chemicals k | nown to cause reproductive toxicity for males: | |
| None of the i | ngredients is listed. | |
| · Chemicals k | nown to cause developmental toxicity: | |
| None of the i | ngredients is listed. | |
| · Carcinogeni | c categories | |
| | nmental Protection Agency) | |
| 1330-20-7 x | ylene | |
| TLV (Thresh | old Limit Value) | <u>_</u> |
| 1330-20-7 | xylene | A4 |
| 528598-79-0 | Aromatic Polyisocyanate | (A4) |
| 26471-62-5 | m-tolylidene diisocyanate | (A4) |
| · NIOSH-Ca (N | National Institute for Occupational Safety and Health) | · · · · · |
| 528598-79-0 | Aromatic Polyisocyanate | |
| | 1 | |

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: Aromatic Polyisocyanate
 n-butyl acetate
 m-tolylidene diisocyanate
 ethyl acetate
 Hazard statements
- Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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(Contd. of page 13) May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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.

· Department issuing SDS: Product safety department

· Contact: N/A

· Date of preparation / last revision 01/28/2025 / 1.0

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(Contd. of page 14) Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, ÉU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.

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