

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : WB Hardener
 Product code : ELCAT 100-LV

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Coatings Additive

1.3. Details of the supplier of the safety data sheet

Manufacturer

Performance Finishing Solutions
 4800 Eastgate Parkway
 Units 3 & 4
 Mississauga, L4W 3W6 - Canada
 T 905-629-7007

1.4. Emergency telephone number

Emergency number : 800-239-3824 (8AM - 5PM)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 1 (Oral)
 Acute Tox. 1 (Dermal)
 Acute Tox. 3 (Inhalation:vapour)
 Skin Irrit. 1
 Eye Irrit. 1
 STOT SE 3
 STOT RE 3

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

GHS08

Signal word (GHS) :

Danger

Hazard statements (GHS) :

Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin irritation. May cause respiratory irritation. Harmful to aquatic life.
 Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS) :

Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

No additional information available

ELCAT100-LV - WB Hardener, Low Viscosity

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
(oligomeric) HDI Isocyanurate type oligomers	(CAS-No.) 28182-81-2	70-85
1,6-hexamethylene diisocyanate	(CAS-No.) 822-06-0	0.1-0.3

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Call a poison center or a doctor if you feel unwell.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract. **Immediate medical attention is required.**
- Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Chronic symptoms : Causes damage to organs through prolonged or repeated exposure.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note to Physician: Inhale corticosteroid dose aerosol. Treat according to symptoms (decontamination, vital functions), no know specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry Powder or foam.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Breathing protection is required.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment. Contain contaminated water/fire fighting water. Do not discharge to drains.

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6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Avoid release to the environment. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for solidification and then disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Store locked up. Protect from freezing. Keep out of direct sunlight.
- If moisture enters into isocyanate containers, CO₂ will form and pressure can build up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,6-hexamethylene diisocyanate (822-06-0)		
ACGIH	ACGIH TWA (ppm)	.005 ppm

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. NIOSH certified organic vapour/particulate respirators are required.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Avoid inhalation of mists.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Light Yellow
- Odour : Mild Aromatic
- Odour threshold : Not applicable
- pH : Not applicable
- Melting point : Not applicable
- Freezing point : -32 °C (-26 °F)
- Boiling point : 246°C (475°F)
- Flash point : >100°C
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : Not flammable
- Vapour pressure : No data available
- Relative vapour density at 20 °C (68 °F) : No data available
- Relative density : 1.13 (20°C)

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Solubility	: Soluble in water, reacts.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1000-2000 cps
Explosive limits	: Lower explosive limit (LEL): Not applicable Upper explosive limit (UEL): Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with alcohols. Reacts with amines. Reacts with substances which contain active hydrogen. Reacts with water to form carbon dioxide. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

10.4. Conditions to avoid

Avoid moisture. Avoid humidity. Avoid direct contact with water.

10.5. Incompatible materials

Water, amines, alcohols and strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

1,6-hexamethylene diisocyanate (822-06-0)	
LD50 oral rat	>5000 mg/kg
LD50 dermal rabbit	Slight irritant
LC50 inhalation rat	0.467 mg/l
ATE CA (Dermal)	>5000 mg/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Unlikely to cause eye irritation.
Respiratory or skin sensitisation	: Substance may cause sensitization of the respiratory tract.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

Medical conditions aggravated by overexposure

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasm of the bronchial tubes and difficulty breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

1,6-hexamethylene diisocyanate (822-06-0)	
LC50 fish 1	Not determined
EC50 Daphnia 1	10-100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	Not determined

12.2. Persistence and degradability

ELCAT100-LV, WB Hardener Low-Viscosity	
Persistence and degradability	The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

12.3. Bioaccumulative potential

ELCAT100-LV, WB Hardener Low-Viscosity	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Do not release untreated into natural waters. Local regulations on waste water treatment must be followed.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not Regulated

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 11/01/2022
Other information : None.
Prepared by : Michael Chrisomalis

SDS HazCom 2012 - WHMIS 2015

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