

1 Identification

- **Product identifier**
- **Trade name:** Resinwerks LevelGuard EM Part-B
- **Product code:** 51017
- **Recommended use and restrictions on use**
- **Use of the substance/mixture:** 2-Part Epoxy Activator/Hardener
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Resinwerks
7205 Gilpin Way, Ste 200
Denver, CO 80229
- **Information department:**
Product safety department
- **Emergency telephone number:**
During normal opening times: +1 (720) 484-5160

2 Hazard(s) Identification

- **Classification of the substance or mixture**
- **GHS-US Classification**
Acute toxicity (oral), Category 4 **H302** Harmful if swallowed.
Skin corrosion/irritation, Category 1B **H314** Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1 **H318** Causes serious eye damage.
Skin sensitization, Category 1 **H317** May cause an allergic skin reaction.
Specific target organ toxicity — Repeated exposure, Category 2 **H373** May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment — Acute Hazard, Category 3 **H402** Harmful to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 2 **H411** Toxic to aquatic life with long lasting effects.
Full text of H-statements: see section 16

- **GHS Label elements, including precautionary statements**
- **Hazard pictograms (GHS US):**



- **Signal word (GHS US):** DANGER
- **Hazard statements (GHS US):**
H302 – Harmful if swallowed
H314 – Causes severe skin burns and eye damage
H317 – May cause an allergic skin reaction
H373 – May cause damage to organs through prolonged or repeated exposure
H411 – Toxic to aquatic life with long lasting effects
- **Precautionary statements (GHS US):**
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.
P264 – Wash hands, forearms and face thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P272 – Contaminated work clothing must not be allowed out of the workplace.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 – If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352 – If on skin: Wash with plenty of mild soap and water.

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P303+P361+P353 – If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P314 – Get medical advice/attention if you feel unwell.

P333+P313 – If skin irritation or rash occurs: Get medical advice or attention.

P362+P364 – Take off contaminated clothing and wash it before reuse.

P391 – Collect spillage.

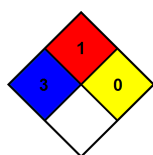
P405 – Store locked up.

P501 – Dispose of contents and/or container to hazardous or special waste collection point.

• **Other hazards which do not result in classification**

No additional information available

• **NFPA Ratings (scale 0-4)**



Health = 3 Fire = 1 Reactivity = 0

• **HMIS Ratings (scale 0-4)**

• **HEALTH 3 FIRE 1 REACTIVITY 0 PERSONAL PROTECTION C**

3 Composition/Information on Ingredients

• **Substances**

Not applicable

• **Mixtures**

Name	CAS No.	Conc. (% w/w)	GHS Classification
Polyalkylamine	9046-10-0	40 – 70	Skin Corr. 1B, H314 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenolic diluent	Trade Secret*	25 – 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diluent	Trade Secret*	7 – 15	Repr. 2, H361 STOT RE 2, H373
Aliphatic amine	Trade Secret*	1 – 3	Acute Tox. 4 (oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Aliphatic amine	4246-51-9	7 – 15	Acute Tox. 4 (oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements: see section 16

4 First-Aid Measures

• **Description of first aid measures**

• **First-aid measures after inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

• **First-aid measures after skin contact:** Take off immediately all contaminated clothing and wash it before reuse. Dispose of contaminated leather articles. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

• **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. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

• **First-aid measures after ingestion:** Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

• **Most important symptoms and effects (acute and delayed)**

• **Symptoms/effects:** Delayed adverse effects possible.

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- **Symptoms after inhalation:** Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
- **Symptoms after skin contact:** Redness, pain. May cause an allergic skin reaction. May cause immediate skin irritation and blistering. Destruction of skin tissue.
- **Symptoms after eye contact:** Redness, pain. Causes severe inflammation of the conjunctiva and may cause severe damage of the cornea.
- **Symptoms after ingestion:** Severe irritation or burns to the mouth, throat, oesophagus, and stomach. Abdominal pain.
- **Chronic symptoms:** Cross-sensitization, or allergic response away from direct contact area may occur. Symptoms of chronic overexposure may not be readily apparent.
- **Immediate medical attention and special treatment, if necessary**
Treat symptomatically. Never give anything by mouth to an unconscious person.

5 Fire-Fighting Measures

- **Suitable (and unsuitable) extinguishing media**
- **Suitable extinguishing media:** Water spray. Dry powder. Foam. Carbon dioxide.
- **Unsuitable extinguishing media:** Do not use a heavy water stream.
- **Specific hazards arising from the chemical**
- **Fire hazard:** Irritating and/or toxic gases or fumes likely if involved in fire or exposed to extreme heat.
- **Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.
- **Special protective equipment and precautions for fire-fighters**
- **Firefighting instructions:** Use water spray or fog for cooling exposed containers. Dike water and extinguishing agents away from drains and waterways if possible.
- **Protection during firefighting:** Complete protective clothing. Use self-contained breathing apparatus and chemically protective clothing.
- **Other information:** On heating/burning: release of harmful/irritant gases/vapours.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
- General measures:
Only qualified personnel equipped with suitable protective equipment may intervene.
- For non-emergency personnel:
Protective equipment: Boots, gloves, goggles.
Emergency procedures: Do not breathe mist/vapours/spray. Stop leak without risks if possible. Dam up the spill. Avoid contact with skin and eyes.
- For emergency responders:
Protective equipment: Boots, gloves, goggles. Complete protective suit against chemicals.
- **Environmental precautions**
Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- **Methods and material for containment and cleaning up**
- **For containment:** Dike and contain spill. Soak up small spill with inert solids. Contain or absorb spilled liquid with clay or other absorbent material.
- **Methods for cleaning up:** On land, sweep or shovel into suitable containers. Clean/flush spill area with mild detergent solution.
- **Other information:** Dispose of materials or solid residues at an authorized site.
- **Reference to other sections**
For further information refer to section 13.

7 Handling and Storage

- **Precautions for safe handling**
- **Additional hazards when processed:** When heated, material emits irritating fumes.
- **Precautions for safe handling:** Do not breathe mist/vapours/spray. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid contact with skin and eyes.
- **Hygiene measures:** Take off contaminated clothing and wash before reuse. Keep work clothing separate. Always wash hands after handling the product.

Trade name: Resinwerks LevelGuard EM Part-B**• Conditions for safe storage, including any incompatibilities**

- **Storage conditions:** Store locked up. Do not expose to temperatures exceeding 50 °C / 122 °F. Store in a dry place.
- **Incompatible materials:** Keep away from strong oxidizers. Keep away from strong acids.
- **Maximum storage period:** 12 months
- **Storage temperature:** 10 – 50 °C

8 Exposure Controls / Personal Protection**• Control parameters**

- Polyalkylamine (9046-10-0): Not applicable
- Phenolic diluent (Trade Secret): Not applicable
- Diluent (Trade Secret) – ACGIH Local name: Triethanolamine; ACGIH TLV® TWA: 5 mg/m³
- Aliphatic amine (Trade Secret): Not applicable
- Aliphatic amine (4246-51-9): Not applicable

• Appropriate engineering controls

Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls: Avoid release to the environment.

• Individual protection measures / Personal protective equipment

- **Personal protective equipment:** Face shield. Gloves. Protective goggles. Protective apron. Safety glasses.
- **Materials for protective clothing:** Nitrile rubber. Neoprene/butyl rubber.
- **Hand protection:** Butyl rubber. Chloroprene rubber. Nitrile rubber. Gloves.
- **Eye protection:** Chemical goggles or face shield.
- **Skin and body protection:** Chemical resistant apron. Disposable sleeves. Long sleeved protective clothing.
- **Respiratory protection:** In case of insufficient ventilation or if heated, wear suitable respiratory equipment. Wear appropriate organic amines mask.
- **Thermal hazard protection:** Heating of uncured material not recommended; may release irritating and/or harmful fumes.

9 Physical and Chemical Properties

- **Physical state:** Liquid
- **Colour:** Clear
- **Odour:** Amine-like
- **Odour threshold:** No data available
- **pH:** No data available
- **Melting point:** Not applicable
- **Freezing point:** No data available
- **Boiling point:** No data available
- **Flash point:** > 150 °C
- **Flammability:** No data available
- **Vapour pressure:** < 1 mm Hg @ 20 °C
- **Relative vapour density at 20°C:** No data available
- **Density:** 1.021 g/cm³
- **Solubility:** Poorly soluble in water
- **Partition coefficient n-octanol/water (Log Pow):** No data available
- **Auto-ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Viscosity, kinematic:** No data available
- **Viscosity, dynamic:** No data available
- **Explosive limits:** No data available
- **Explosive properties:** No data available
- **Oxidising properties:** No data available

No additional information available

10 Stability and Reactivity**• Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

Trade name: Resinwerks LevelGuard EM Part-B**• Chemical stability**

Stable under normal conditions.

• Possibility of hazardous reactions

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

• Conditions to avoid

Overheating. Water, humidity.

• Incompatible materials

Oxidizing agent.

• Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Ammonia. Nitrogen oxides.

11 Toxicological Information**• Information on toxicological effects**

• **Acute toxicity (oral):** Harmful if swallowed. ATE US (oral): 1852.876 mg/kg bodyweight

• **Acute toxicity (dermal):** Not classified

• **Acute toxicity (inhalation):** Not classified

• Component toxicity data:

Polyalkylamine (9046-10-0): LD50 oral rat 1100 mg/kg; LD50 dermal rabbit 1555 mg/kg

Phenolic diluent (Trade Secret): LD50 oral rat 2500 mg/kg; LD50 dermal rabbit >7940 mg/kg; LC50 Inhalation Rat >158.3 mg/l/4h

Diluent (Trade Secret): LD50 oral rat 6400 mg/kg; LD50 dermal rat >2000 mg/kg

Aliphatic amine (Trade Secret): LD50 oral rat 2108 mg/kg; LD50 dermal rabbit 866 mg/kg

Aliphatic amine (4246-51-9): LD50 oral rat 3160 mg/kg; LD50 dermal rabbit 2500 mg/kg

• **Skin corrosion/irritation:** Causes severe skin burns.

• **Serious eye damage/irritation:** Causes serious eye damage.

• **Respiratory or skin sensitisation:** May cause an allergic skin reaction.

• **Germ cell mutagenicity:** Not classified

• **Carcinogenicity:** Not classified

• **Reproductive toxicity:** Not classified

• **STOT-single exposure:** Not classified

• **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.

• **Aspiration hazard:** Not classified

• **Symptoms/effects:** Delayed adverse effects possible.

• **Symptoms after inhalation:** Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

• **Symptoms after skin contact:** Redness, pain. May cause an allergic skin reaction. Destruction of skin tissue.

• **Symptoms after eye contact:** Redness, pain. Causes severe inflammation of the conjunctiva and may cause severe damage of the cornea.

• **Symptoms after ingestion:** Severe irritation or burns to the mouth, throat, oesophagus, and stomach. Abdominal pain.

• **Chronic symptoms:** Cross-sensitization, or allergic response away from direct contact area may occur.

12 Ecological Information**• Toxicity**

Polyalkylamine (9046-10-0): LC50 Fish 100 mg/l / 96h; EC50 Crustacea 15 mg/l / 48h; ErC50 algae 135 mg/l / 72h

Phenolic diluent (Trade Secret): LC50 Fish 10 mg/l / 96h; EC50 Crustacea 4.6 mg/l / 48h; EC50 Algae 9.7 mg/l / 72h

Aliphatic amine (4246-51-9): LC50 Fish 215 mg/l / 96h; EC50 Crustacea 218 mg/l / 48h

• Persistence and degradability

Phenolic diluent: Not readily biodegradable in water.

Diluent: Readily biodegradable according to appropriate OECD test.

Aliphatic amine (Trade Secret): Not readily biodegradable in water.

Aliphatic amine (4246-51-9): Not readily biodegradable in water. Photodegradation in the air.

• Bioaccumulative potential

Resinwerks LevelGuard EM Part-B (51017): Low bioaccumulation potential.

Polyalkylamine (9046-10-0): Low bioaccumulation potential.

Phenolic diluent: BCF (REACH) 18.21; Log Kow >4

Trade name: Resinwerks LevelGuard EM Part-B

Diluent: BCF Fish <3.9; Log Pow -2.3
 Aliphatic amine (4246-51-9): BCF 0.07; Log Pow -1.25

- **Mobility in soil**

Aliphatic amine (Trade Secret): Log Koc 4.57
 Aliphatic amine (4246-51-9): Log Koc 1.2

- **Other adverse effects**

No additional information available.

13 Disposal Considerations

- **Disposal methods**

- **Waste treatment methods:** Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.
- **Sewage disposal recommendations:** Do not discharge into drains or the environment.
- **Product/Packaging disposal recommendations:** Collect all waste in suitable and labelled containers and dispose according to local legislation. Dispose of contents or partial containers in accordance with local/regional regulations.

14 Transport Information

- **Department of Transportation (DOT)**

- **Transport document description:** UN2735 Polyamines, liquid, corrosive, n.o.s. (Aliphatic Amine Blend), 8, II
- **UN-No.:** UN2735
- **Proper Shipping Name:** Polyamines, liquid, corrosive, n.o.s. (Aliphatic Amine Blend)
- **Class:** 8 – Corrosive material (49 CFR 173.136)
- **Packing group:** II – Medium Danger
- **Hazard labels:** 8 – Corrosive
- **Dangerous for the environment:** Yes **Marine pollutant:** Yes
- **Emergency Response Guide (ERG) Number:** 153

- **Transport by sea (IMDG)**

- **Transport document description:** UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic Amine Blend), 8, II
- **UN-No.:** 2735
- **Class:** 8 – Corrosive substances
- **Packing group:** II – Medium danger
- **Limited quantities:** 1 L **Marine pollutant:** Yes

- **Air transport (IATA)**

- **Transport document description:** UN 2735 Polyamines, liquid, corrosive, n.o.s. (Aliphatic Amine Blend), 8, II
- **UN-No.:** 2735
- **Proper Shipping Name:** Polyamines, liquid, corrosive, n.o.s.
- **Class:** 8 – Corrosives
- **Packing group:** II – Medium danger

15 Regulatory Information

- **US Federal regulations**

- SARA Section 311/312 Hazard Classes: Health hazard – Respiratory or skin sensitization; Health hazard – Serious eye damage or eye irritation; Health hazard – Skin corrosion or Irritation
- All components of this product are present and listed as Active on the United States EPA TSCA inventory.
- Component inventory listing:
 - Polyalkylamine CAS-No. 9046-10-0 (40–70%): EPA TSCA XU flag. SARA 311/312: Immediate acute health hazard. Listed on US TSCA – Active; INSQ (Mexico).
 - Phenolic diluent (Trade Secret): Listed on US TSCA – Active.
 - Aliphatic amine (Trade Secret): Listed on US TSCA – Active; INSQ (Mexico).
 - Aliphatic amine (4246-51-9): Listed on US TSCA – Active.

- **International regulations**

- EU-Regulations

Trade name: Resinwerks LevelGuard EM Part-B

Resinwerks LevelGuard EM Part-B (51017): RoHS Substance: No; SVHC: No
All listed components: SVHC: No; RoHS Substance: No
No additional information available

16 Other Information**• Revision date**

10/17/2025

• Other information

Prepared in accordance with 29 CFR § 1910.1200 et.al., Hazard Communication Standard (HCS)

DISCLAIMER: To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

• Abbreviations and acronyms:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – US Occupational Health and Safety Administration

TLV-TWA – Threshold Limit Value–Time Weighted Average (8 hrs)

STEL – Short-Term Exposure Limit (15 min)

PEL – Permissible Exposure Limit

OEL – Occupational Exposure Limit

IDLH – Immediately Dangerous to Life and Health

ATE – Acute Toxicity Estimate

BCF – Bioconcentration Factor

PNEC – Predicted No Effect Concentration

NOAEL – No Observed Adverse Effect Level

NFPA health hazard: 3 – Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard: 1 – Materials that must be preheated before ignition can occur.

NFPA reactivity: 0 – Material that in themselves are normally stable, even under fire conditions.

Hazard Rating — Health: 3 Serious Hazard; Flammability: 1 Slight Hazard; Physical: 0 Minimal Hazard; Personal protection: C