



## SAFETY DATA SHEET EPO-TEK® H31LV

### 1. Identification

#### Product identifier

**Product name** EPO-TEK® H31LV

**Product number** H31LV

#### Recommended use of the chemical and restrictions on use

**Application** Adhesive.

**Uses advised against** Use only for intended applications.

#### Details of the supplier of the safety data sheet

**Supplier** Epoxy Technology, Inc.  
14 Fortune Drive  
Billerica, MA 01821  
USA  
(978) 667-3805  
(978) 663-9782  
www.epotek.com, SDS@epotek.com

**Manufacturer** Epoxy Technology, Inc.  
14 Fortune Drive  
Billerica, MA 01821  
USA  
(978) 667-3805  
(978) 663-9782  
www.epotek.com, SDS@epotek.com

#### Emergency telephone number

**Emergency telephone** ChemTel: +1 (800) 255-3924, +1 (813) 248-0585

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** Contains a substance which may be potentially carcinogenic. Contains a substance/a group of substances which may damage the unborn child.

#### Label elements

**EPO-TEK® H31LV****Hazard symbols****Signal word**

Danger

**Hazard statements**

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.  
 P302+P352 If on skin: Wash with plenty of water.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Resorcinol Diglycidyl Ether, Substituted Amine, Reactive Diluent

**Other hazards**

Harmful dust may be released during cutting or grinding process.

**3. Composition/information on ingredients****Mixtures**

<b>Silver</b>	<b>30-60%</b>
CAS number: 7440-22-4	
<b>Classification</b>	
Aquatic Chronic 2 - H411	
<b>Resorcinol Diglycidyl Ether</b>	<b>30-60%</b>
CAS number: 101-90-6	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 2 - H351	

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<b>Substituted Amine</b>	<b>1-5%</b>
CAS number: Proprietary	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
<b>Reactive Diluent</b>	<b>1-5%</b>
CAS number: Proprietary	
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
STOT SE 3 - H336	

The full text for all hazard statements is displayed in Section 16.

**4. First-aid measures****Description of first aid measures**

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Most important symptoms and effects, both acute and delayed**

<b>General information</b>	Suspected of causing genetic defects. Suspected of causing cancer.
<b>Inhalation</b>	Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
<b>Ingestion</b>	Harmful if swallowed. May cause stomach pain or vomiting. May cause chemical burns in mouth and throat. May cause nausea, headache, dizziness and intoxication.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin contact.
<b>Eye contact</b>	Causes serious eye damage.

**Indication of immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	Treat symptomatically.
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**5. Fire-fighting measures****Extinguishing media**

**Suitable extinguishing media** Extinguish with the following media: Dry chemicals. Foam. Carbon dioxide (CO<sub>2</sub>).

**Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
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### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage.

#### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

**Reference to other sections** For personal protection, see Section 8.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Handle all packages and containers carefully to minimize spills. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Wash promptly if skin becomes contaminated. Wash hands thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at -40°C. Keep container tightly sealed when not in use.

**Storage class** Chemical storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

**Ingredient comments** No exposure limits known for ingredient(s).

#### Exposure controls

##### Protective equipment



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Eye/face protection** Wear tight-fitting, chemical splash goggles or face shield.

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<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Color</b>	Silver.
<b>Odor</b>	Mild.
<b>Odor threshold</b>	No specific test data are available.
<b>pH</b>	No specific test data are available.
<b>Melting point</b>	No specific test data are available.
<b>Initial boiling point and range</b>	No specific test data are available.
<b>Flash point</b>	> 93°C
<b>Evaporation rate</b>	<BuAc
<b>Flammability (solid, gas)</b>	No specific test data are available.
<b>Upper/lower flammability or explosive limits</b>	No specific test data are available.
<b>Vapor pressure</b>	No specific test data are available.
<b>Vapor density</b>	>1
<b>Relative density</b>	No specific test data are available.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	No specific test data are available.
<b>Auto-ignition temperature</b>	No specific test data are available.
<b>Decomposition Temperature</b>	No specific test data are available.
<b>Viscosity</b>	No specific test data are available.
<b>Other information</b>	None.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Strong oxidizing agents. Strong reducing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	May polymerize.

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<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Strong oxidizing agents. Strong reducing agents.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of carbon. Oxides of nitrogen.

**11. Toxicological information****Information on toxicological effects****Acute toxicity - oral**

ATE oral (mg/kg) 1,410.44

**Acute toxicity - dermal**

ATE dermal (mg/kg) 3,363.91

<b>General information</b>	Suspected of causing cancer. Suspected of causing genetic defects. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.
<b>Inhalation</b>	Gas or vapor in high concentrations may irritate the respiratory system. Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract.
<b>Ingestion</b>	Harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
<b>Skin Contact</b>	Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin contact.
<b>Eye contact</b>	Causes serious eye damage.

**Toxicological information on ingredients.****Resorcinol Diglycidyl Ether****Carcinogenicity**

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

**12. Ecological information**

<b>Ecotoxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	No information available.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	No data available.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	No specific test data are available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	The product has poor water-solubility.
<b><u>Other adverse effects</u></b>	

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**Other adverse effects** Not known.

**13. Disposal considerations****Waste treatment methods**

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**14. Transport information****UN Number**

<b>UN No. (TDG)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (DOT)</b>	UN3082

**UN proper shipping name**

**Proper shipping name (TDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

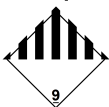
**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

**Proper shipping name (DOT)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

**Transport hazard class(es)**

<b>DOT hazard class</b>	9
<b>DOT hazard label</b>	9
<b>TDG class</b>	9
<b>TDG label(s)</b>	9
<b>IMDG Class</b>	9
<b>ICAO class/division</b>	9

**Transport labels****DOT transport labels****Packing group**

<b>TDG Packing Group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>DOT packing group</b>	III

**Environmental hazards**

**EPO-TEK® H31LV****Environmentally Hazardous Substance****Special precautions for user**

**EmS** F-A, S-F

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information**

**Regulatory References** Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

**US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed:

*Silver*

1,000 lbs (454 Kg)

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed.

**SARA 313 Emission Reporting**

The following ingredients are listed:

*Silver*

*Resorcinol Diglycidyl Ether*

**CAA Accidental Release Prevention**

None of the ingredients are listed.

**OSHA Highly Hazardous Chemicals**

None of the ingredients are listed.

**US State Regulations****California Proposition 65 Carcinogens and Reproductive Toxins**

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

*Resorcinol Diglycidyl Ether*

**California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed:

*Silver*



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### California Air Toxics "Hot Spots" (A-II)

The following ingredients are listed:

*Resorcinol Diglycidyl Ether*

### Massachusetts "Right To Know" List

The following ingredients are listed:

*Silver*

*Resorcinol Diglycidyl Ether*

### Rhode Island "Right To Know" List

The following ingredients are listed:

*Silver*

### Minnesota "Right To Know" List

The following ingredients are listed:

*Silver*

*Resorcinol Diglycidyl Ether*

### New Jersey "Right To Know" List

The following ingredients are listed:

*Silver*

*Resorcinol Diglycidyl Ether*

### Pennsylvania "Right To Know" List

The following ingredients are listed:

*Silver*

*Resorcinol Diglycidyl Ether*

## Inventories

### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

### Canada - DSL/NDSL

All the ingredients are listed or exempt.

### US - TSCA

All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification

None of the ingredients are listed.

### Australia - AICS

All the ingredients are listed or exempt.

### Japan - ENCS

Some of the ingredients are listed or exempt.

### Korea - KECI

Some of the ingredients are listed or exempt.

### China - IECSC

All the ingredients are listed or exempt.

**EPO-TEK® H31LV****Philippines - PICCS**

Some of the ingredients are listed or exempt.

**New Zealand - NZIOC**

Some of the ingredients are listed or exempt.

**16. Other information**

<b>Revision date</b>	10/27/2020
<b>Revision</b>	3
<b>Supersedes date</b>	1/22/2020
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.