

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 04/21/2020 Version: 1.0

### **SECTION 1: Identification**

#### 1.1. Identification

Product name : EP1305LV Black B

### 1.2. Recommended use and restrictions on use

Recommended use : Epoxy hardener

Restrictions on use : Product for industrial use only

### 1.3. Supplier

ResinLab, LLC

N109 W13300 Ellsworth Drive

Germantown, WI 53022 - United States

T 1-877-259-1669

msds@resinlab.com - www.resinlab.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation, Category 1B Skin sensitisation, Category 1 Reproductive toxicity, Category 2 H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

Full text of H statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

## **GHS US labelling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.
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 water.

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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor.

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

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - 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 which do not result in classification

No additional information available

04/21/2020 EN (English) Page 1

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                       | Product identifier   | %       | GHS US classification   |
|----------------------------|----------------------|---------|---|
| 4-Nonylphenol, branched    | (CAS-No.) 84852-15-3 | 30 – 50 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Repr. 2, H361<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                         |
| N-(2-Aminoethyl)piperazine | (CAS-No.) 140-31-8   | 10 – 30 | Acute Tox. 3 (Dermal), H311<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Repr. 2, H361<br>Aquatic Acute 3, H402<br>Aquatic Chronic 3, H412 |

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

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician

immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

No additional information available

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

04/21/2020 EN (English) 2/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station, curing ovens must be ventilated to prevent

emissions in the workplace. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid

contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 4-Nonylphenol, branched (84852-15-3)

Not applicable

Hygiene measures

### N-(2-Aminoethyl)piperazine (140-31-8)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use only with adequate ventilation. Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

## Eye protection:

Safety glasses with side shields

## Skin and body protection:

Wear suitable protective clothing

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):







## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : amber
Odour : Amine-like

04/21/2020 EN (English) 3/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 : > 100 °C

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Density : 1 g/cm<sup>3</sup>

Solubility No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, dynamic : No data available **Explosive limits** Explosive properties : No data available Oxidising properties : No data available VOC content No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Acids. Bases (Alkalis). Metals. Oxidizing agent.

## 10.6. Hazardous decomposition products

ammonia. Amines.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| 1412 mg/kg bodyweight (Other, Rat, Male / female, Experimental value, Oral)  |
|--|
| 1412 mg/kg bodyweight  |
|  |
| 2097 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))       |
| 866 mg/kg bw/day (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| 2097 mg/kg bodyweight  |
| 866 mg/kg bodyweight   |
|  |

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause serious eye damage

04/21/2020 EN (English) 4/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic

organisms.

| 4-Nonylphenol, branched (84852  | 2-15-3)   |
|---------------------------------|---|
| LC50 fish 1                     | 0.08 mg/l (ASTM E729-96, 96 h, Hybopsis monacha, Static system, Fresh water, Experimental value, Nominal concentration)           |
| EC50 Daphnia 1                  | 0.084 mg/l (ASTM E729-88, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)                               |
| N-(2-Aminoethyl)piperazine (140 | J-31-8)   |
| LC50 fish 1                     | 2190 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)   |
| EC50 Daphnia 1                  | 58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)            |
| ErC50 (algae)                   | > 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP) |

## 12.2. Persistence and degradability

| 4-Nonylphenol, branched (84852-15-3)  |  |
|---------------------------------------|--|
| Persistence and degradability         | Biodegradability in soil: no data available. Readily biodegradable in water. |
| N-(2-Aminoethyl)piperazine (140-31-8) |  |
| Persistence and degradability         | Not readily biodegradable in water.  |
| Chemical oxygen demand (COD)          | 0.56 g O <sub>2</sub> /g substance   |

## 12.3. Bioaccumulative potential

| 4-Nonylphenol, branched (84852-15-3)                       |  |
|--|--|
| BCF fish 1   | 1200 – 1300 (OECD 305: Bioconcentration: Flow-Through Fish Test, 16 day(s), Gasterosteus aculeatus, Flow-through system, Salt water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow)            | 5.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)  |
| Bioaccumulative potential                                  | Potential for bioaccumulation (500 ≤ BCF ≤ 5000).  |
| N-(2-Aminoethyl)piperazine (140-31-8)                      |  |
|  |  |
| BCF fish 1   | 0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across)                              |
| BCF fish 1 Partition coefficient n-octanol/water (Log Pow) |  |

### 12.4. Mobility in soil

| 4-Nonylphenol, branched (84852-15-3)            |   |
|---|---|
| Partition coefficient n-octanol/water (Log Koc) | 4.35 – 5.69 (log Koc, Other, Experimental value, GLP) |
| Ecology - soil                                  | Adsorbs into the soil.                                |

04/21/2020 EN (English) 5/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| N-(2-Aminoethyl)piperazine (140-31-8)           |                                     |
|---|-------------------------------------|
| Partition coefficient n-octanol/water (Log Koc) | 4.57 (log Koc, Read-across, GLP)    |
| Ecology - soil                                  | Low potential for mobility in soil. |

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched, N-

Aminoethylpiperazine), 8, III

UN-No.(DOT) : UN3267

Proper Shipping Name (DOT) : Corrosive liquid, basic, organic, n.o.s.

4-Nonylphenol, branched, N-Aminoethylpiperazine

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 8 - Corrosive

CORROSIVE

Marine pollutant : Yes (IMDG only)

\*\*\*

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

04/21/2020 EN (English) 6/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Emergency Response Guide (ERG) Number : 153

Other information : No supplementary information available.

### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4-Nonylphenol, branched, N-

AMINOETHYLPIPERAZINE), 8, III

UN-No. (IMDG) : 3267

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

4-Nonylphenol, branched, N-AMINOETHYLPIPERAZINE

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Marine pollutant : Yes (IMDG only)



#### Air transport

Transport document description (IATA) : UN 3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched, N-

AMINOETHYLPIPERAZINE), 8, III

UN-No. (IATA) : 3267

Proper Shipping Name (IATA) : Corrosive liquid, basic, organic, n.o.s.

 $\hbox{4-Nonylphenol, branched, N-AMINOETHYLPIPERAZINE}$ 

Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Minor Danger

### **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| 4-Nonylphenol, branched  |                           | CAS-No. 84852-15-3            | 30 – 50%                                      |
|--|---------------------------|-------------------------------|---|
| 4-Nonylphenol, branched (84852-15-3)   |                           |                               |   |
| Listed on the United States TSCA (Toxic Subject to reporting requirements of Unite | ,                         | ,                             |   |
| EPA TSCA Regulatory Flag   | SP - SP - indica          | tes a substance that is ident | ified in a proposed Significant New Use Rule. |
| N-(2-Aminoethyl)piperazine (140-31-8)  |                           |                               |   |
| Listed on the United States TSCA (Toxic S  | Substances Control Act) i | nventory                      |   |

## 15.2. International regulations

### CANADA

## 4-Nonylphenol, branched (84852-15-3)

Listed on the Canadian DSL (Domestic Substances List)

### N-(2-Aminoethyl)piperazine (140-31-8)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

Contains the following REACH ingredient(s): 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof[ (EC 284-325-5, CAS 84852-15-3)

### **National regulations**

No additional information available

04/21/2020 EN (English) 7/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 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

| Component                            | State or local regulations   |
|--------------------------------------|--|
| N-(2-Aminoethyl)piperazine(140-31-8) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Full text of H-statements:

| toxt of 11 statements. |   |
|------------------------|---|
| H302                   | Harmful if swallowed.                                 |
| H311                   | Toxic in contact with skin.                           |
| H314                   | Causes severe skin burns and eye damage.              |
| H317                   | May cause an allergic skin reaction.                  |
| H361                   | Suspected of damaging fertility or the unborn child.  |
| H400                   | Very toxic to aquatic life.                           |
| H402                   | Harmful to aquatic life                               |
| H410                   | Very toxic to aquatic life with long lasting effects. |
| H412                   | Harmful to aquatic life with long lasting effects.    |

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

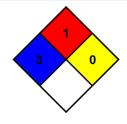
serious or permanent injury.

: 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

NFPA fire hazard

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

## SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

04/21/2020 EN (English) 8/8