1. Identification

Product identifier: Envirotex Lite Hardener

Other means of identification:
- SDS number: 7511900
- Product code: 02008, 02016, 02032, 02064, 02128

Recommended use: High Gloss Coating

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:
- Company name: Environmental Technology, Inc.
- Address: 300 S. Bay Depot Road
- Fields Landing
- CA 95537, USA.
- Telephone number: 001 707-443-9323
- E-mail: mail@eti-usa.com
- Technical Director: Contact person
- Emergency phone number: 800-424-9300 (CHEMTREC)

2. Hazard identification

Physical hazards: Not classified.

Health hazards:
- Acute toxicity, oral: Category 4
- Skin corrosion/irritation: Category 1
- Serious eye damage/eye irritation: Category 1
- Sensitization, skin: Category 1
- Reproductive toxicity (fertility, the unborn child): Category 2

Label elements

Signal word: Danger

Hazard statement:
Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statement

Prevention:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response:
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. Immediately call a POISON CENTRE/doctor. Wash contaminated clothing before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards:
None known.

Supplemental information:
None known.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Piperazin-1-ylethylamine</td>
<td></td>
<td>140-31-8</td>
<td>3-7 % wt/wt</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td></td>
<td>84852-15-3</td>
<td>45-70 % wt/wt</td>
</tr>
<tr>
<td>Polyoxypropylenediamine</td>
<td></td>
<td>9046-10-0</td>
<td>15-40 % wt/wt</td>
</tr>
<tr>
<td>Trimethylolpropane poly(oxypropylene)triamine</td>
<td></td>
<td>39423-51-3</td>
<td>7-13 % wt/wt</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. First-aid measures

Inhalation: If inhaled, remove to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.

Skin contact: Remove contaminated clothing. Rinse skin thoroughly with lukewarm water for at least 15 minutes. Call a physician or poison control centre immediately. Wash contaminated clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Ingestion: Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a physician or Poison Control Centre immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and delayed: Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause an allergic skin reaction. Dermatitis. Rash. Contact can cause corrosive burns, corneal damage, and blindness. Itching, redness, swelling, burning or blistering of skin.

Indication of immediate medical attention and special treatment needed: Exposure may aggravate pre-existing skin disorders. Treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures


Unsuitable extinguishing media: Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed such as: Carbon oxides. Nitrogen Oxides (NOx).

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: In case of fire do not breath fumes. Move container from fire area if it can be done without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not get in eyes, on skin or on clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up

Keep unnecessary personnel away. This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Do not get this material in your eyes, on your skin, or on your clothing. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials, see Section 10 of the SDS.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated. Use personal protective equipment as required. Keep working clothes separately.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Chemical resistant gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Hand protection

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

Other

Wear appropriate thermal protective clothing, when necessary.

Respiratory protection

If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Wash at the end of each work shift and before eating, smoking or using the toilet.

9. Physical and chemical properties

Appearance

Viscous liquid.

Physical state

Liquid.

Form

Pourable liquid.

Colour

Clear.

Odour


Odour threshold

Not available.

pH

>= 11.7

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

> 121.0 °C (> 249.8 °F) Closed cup

Evaporation rate

Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit – upper (%) Not available.

Vapour pressure Not available.

Vapour density > 1 (Air = 1)

Relative density Not available.

Solubility(ies)

Solubility (water) Slightly soluble (0.1-1%)

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Oxidising properties Not oxidising.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. Read and follow manufacturer's recommendations.

Chemical stability Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions Hazardous polymerisation does not occur.

Conditions to avoid Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Avoid incompatible materials and intense heat.


Hazardous decomposition products None expected under normal conditions of use.

11. Toxicological information

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard. When heated, the vapours/fumes given off may cause respiratory tract irritation.

Skin contact Causes severe skin burns. May cause an allergic skin reaction. May be harmful if absorbed through skin.

Eye contact Causes serious eye damage.

Ingestion Under normal conditions of intended use, this material does not pose a risk to health. Harmful if swallowed. Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause an allergic skin reaction. Dermatitis. Rash. Contact can cause corrosive burns, corneal damage, and blindness. Itching, redness, swelling, burning or blistering of skin.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May be harmful if absorbed through skin. May cause digestive tract burns.
Components | Species | Test Results
--- | --- | ---
2-Piperazin-1-ylethylamine (CAS 140-31-8) |  |  
**Acute** |  |  
**Dermal** | Rabbit | 880 mg/kg  
**Oral** | Rat | 1200 mg/kg  
**Nonylphenol (CAS 84852-15-3)** |  |  
**Acute** |  |  
**Dermal** | Rabbit | 2031 mg/kg  
**Oral** | Rat | 1200 mg/kg  
**Trimethylolpropane poly(oxypropylene)triamine (CAS 39423-51-3)** |  |  
**Acute** |  |  
**Dermal** | Rabbit | 610 mg/kg  
**Oral** | Rat | 220 mg/kg  
**Skin corrosion/irritation** | Causes severe skin burns.  
**Serious eye damage/eye irritation** | Causes serious eye damage.  
**Respiratory or skin sensitisation** |  |  
**Respiratory sensitisation** | Due to partial or complete lack of data the classification is not possible.  
**Skin sensitisation** | May cause an allergic skin reaction.  
**Germ cell mutagenicity** | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  
**Carcinogenicity** | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.  
**Reproductive toxicity** | Possible reproductive hazard. Possible risk of harm to the unborn child. Possible risk of impaired fertility.  
**Specific target organ toxicity - single exposure** | Not classified.  
**Specific target organ toxicity - repeated exposure** | Not classified.  
**Aspiration hazard** | Due to the high viscosity the product is not an aspiration hazard.  
**Chronic effects** | Prolonged exposure may cause chronic effects. Possible adverse reproductive and developmental effects.  

12. Ecological information

**Ecotoxicity** | Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the environment.  
Components | Species | Test Results
--- | --- | ---
2-Piperazin-1-ylethylamine (CAS 140-31-8) |  |  
**Aquatic** |  |  
**Fish** | Fathead minnow (Pimephales promelas) | 1950 - 2460 mg/l, 96 hours  
**Nonylphenol (CAS 84852-15-3)** |  |  
**Aquatic** |  |  
**Acute** |  |  
**Algae** | Scenedesmus subspicatus | 1.3 mg/l, 72 Hours  
**Crustacea** | Daphnia magna | 0.085 mg/l, 48 Hours  
**Fish** | Pimephales promelas | 0.128 mg/l, 96 Hours
Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>NOEC</td>
</tr>
<tr>
<td>Fish</td>
<td>NOEC</td>
</tr>
</tbody>
</table>

Polyoxypropylenediamine (CAS 9046-10-0)

Aquatic Chronic

| species  | NOEC | Algae  | 0.32 mg/l, 72 hours |

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Nonylphenol (CAS 84852-15-3) 5.71

Mobility in soil

No data available.

Other adverse effects

None known.

13. Disposal considerations

Disposal instructions

Dispose in accordance with applicable federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Dispose in accordance with applicable federal, state, and local regulations.

14. Transport information

TDG

UN number UN1760

UN proper shipping name Corrosive liquids, n.o.s. (Nonyl Phenol Mixture)

Transport hazard class(es)

Class 8

Subsidiary risk -

Packing group III

Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN1760

UN proper shipping name Corrosive liquids, n.o.s. (Nonyl Phenol Mixture)

Transport hazard class(es)

Class 8

Subsidiary risk -

Label(s) 8

Packing group III

Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1760

UN proper shipping name Corrosive liquids, n.o.s. (Nonyl Phenol Mixture)

Transport hazard class(es)

Class 8

Subsidiary risk -

Label(s) 8

Packing group III

Environmental hazards Yes

Marine pollutant Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

General information
IMDG Regulated Marine Pollutant.

15. Regulatory information

Canadian regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

- Controlled Drugs and Substances Act
  Not regulated.

- Export Control List (CEPA 1999, Schedule 3)
  Not listed.

- Greenhouse Gases
  Not listed.

- Precursor Control Regulations
  Not regulated.

International regulations

- Stockholm Convention
  Not applicable.

- Rotterdam Convention
  Not applicable.

- Kyoto Protocol
  Not applicable.

- Montreal Protocol
  Not applicable.

- Basel Convention
  Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 13-July-2017
Revision date 22-July-2019
Version No. 02
List of abbreviations
LD50: Lethal Dose 50%.
LC50: Lethal Concentration 50%.
EC50: Effective Concentration, 50%.
NOAEC: No observed adverse effect concentration.
PEL: Permissible Exposure Limit.
STEL: Short-term Exposure Limit.
TWA: Time Weighted Average Value.

References
ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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