SAFETY DATA SHEET

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

Recommended restrictions: None known.

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
- Contact person: Technical Director
- Emergency phone number: 800-424-9300 (CHEMTREC)

2. Hazard(s) 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

OSHA defined hazards: Not classified.

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 vapor. 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 must 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/shower. 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 center/doctor. Wash contaminated clothing before reuse.

Storage:
Store locked up.

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

Hazard(s) not otherwise classified (HNOC): None known.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxypolyethylene diamine</td>
<td>Proprietary</td>
<td>20-60</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td>Proprietary</td>
<td>10-60</td>
</tr>
<tr>
<td>N-Aminoethylpiperazine</td>
<td>Proprietary</td>
<td>1-25</td>
</tr>
<tr>
<td>Polyoxypolyethylene diamine</td>
<td>Proprietary</td>
<td>1-25</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 manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.

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 center 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 center 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 Center 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

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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 vapor. 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. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

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 vapor. 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.

Skin protection

Other

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

Respiratory protection

Wear appropriate thermal protective clothing, when necessary.

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 and using the toilet.

9. Physical and chemical properties

Appearance

Viscous liquid.

Physical state

Liquid.

Form

Pourable liquid.

Color

Clear.

Odor


Odor threshold

Not available.

pH

>= 11.7

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

> 249.8 °F (> 121.0 °C) Closed Cup
Evaporation rate
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Flammability limit - lower (%)
Flammability limit - upper (%)
Explosive limit - lower (%)
Explosive limit - upper (%)
Vapor pressure
Vapor density
Relative density
Solubility(ies)
Solubility (water)
Partition coefficient (n-octanol/water)
Auto-ignition temperature
Decomposition temperature
Viscosity

10. Stability and reactivity
Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid
Incompatible materials
Hazardous decomposition products

11. Toxicological information
Information on likely routes of exposure
Inhalation
Skin contact
Eye contact
Ingestion
Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects
Acute toxicity
Components
N-Aminoethylpiperazine (CAS Proprietary)
Acute
Dermal
LD50
Rabbit
880 mg/kg
Oral
LD50
Rat
> 1000 mg/kg
Components | Species | Test Results
--- | --- | ---
Nonylphenol (CAS Proprietary) |  |  
**Acute** |  |  
Dermal | Rabbit | 2031 mg/kg  
Oral | Rat | 1200 mg/kg  
Polyoxypropylenediamine (CAS Proprietary) |  |  
**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 sensitization** | Due to partial or complete lack of data the classification is not possible.  
**Respiratory sensitization** | 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.  
**IARC Monographs. Overall Evaluation of Carcinogenicity** | Not listed.  
**NTP Report on Carcinogens** | Not listed.  
**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
--- | --- | ---
N-Aminoethylpiperazine (CAS Proprietary) |  |  
**Aquatic** |  |  
Fish | LC50 | Fathead minnow (Pimephales promelas) 1950 - 2460 mg/l, 96 hours  
Nonylphenol (CAS Proprietary) |  |  
**Aquatic** |  |  
**Acute** |  |  
Algae | EC50 | Scenedesmus subspicatus 1.3 mg/l, 72 Hours  
Crustacea | EC50 | Daphnia magna 0.085 mg/l, 48 Hours  
Fish | LC50 | Pimephales promelas 0.128 mg/l, 96 Hours  
**Chronic** |  |  
Crustacea | NOEC | Daphnia magna 24 µg/l, 21 days  

Envirotex Lite Hardener SDS US  
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## Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>NOEC</td>
</tr>
<tr>
<td>Pimephales promelas</td>
<td>0.0074 mg/l, 33 days</td>
</tr>
<tr>
<td>Polyoxypolyenediamine (CAS Proprietary)</td>
<td>Aquatic</td>
</tr>
<tr>
<td>Chronic</td>
<td>NOEC</td>
</tr>
<tr>
<td>Algae</td>
<td>Algae</td>
</tr>
<tr>
<td></td>
<td>0.32 mg/l, 72 hours</td>
</tr>
</tbody>
</table>

### Persistence and degradability
No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)
- **Nonylphenol**: 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 of in accordance with applicable federal, state, and local regulations.

### 14. Transport information

#### DOT
- **UN number**: UN1760
- **UN proper shipping name**: Corrosive liquids, n.o.s. (Nonyl Phenol Mixture)
- **Class**: 8
- **Subsidiary risk**: -
- **Label(s)**: 8
- **Environmental hazards**: III
- **Marine pollutant**: Yes
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.
- **Special provisions**: IB3, T7, TP1, TP28
- **Packaging exceptions**: 154
- **Packaging non bulk**: 203
- **Packaging bulk**: 241

#### IATA
- **UN number**: UN1760
- **UN proper shipping name**: Corrosive liquids, n.o.s. (Nonyl Phenol Mixture)
- **Class**: 8
- **Subsidiary risk**: -
- **Label(s)**: 8
- **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)
- **Class**: 8
- **Subsidiary risk**: -
- **Label(s)**: 8
- **Packaging group**: III
Environmental hazards

Marine pollutant
Yes

EmS
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
Not established.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Nonylphenol (CAS Proprietary) 1.0 % One-Time Export Notification only.

TSCA Chemical Action Plans, Chemicals of Concern

Nonylphenol (CAS Proprietary) Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Transformative Substances Control Act (TSCA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

Classified hazard categories

Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization
Reproductive toxicity

SARA 313 (TRI reporting)

Chemical name Nonylphenol
CAS number Proprietary
% by wt. 10-60

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
N-Aminoethylpiperazine (CAS Proprietary)

US. New Jersey Worker and Community Right-to-Know Act
N-Aminoethylpiperazine (CAS Proprietary)
Nonylphenol (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-Know Law
N-Aminoethylpiperazine (CAS Proprietary)

US. Rhode Island RTK
Not regulated.
### California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### 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>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<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, including date of preparation or last revision

- **Issue date**: 17-April-2014
- **Revision date**: 22-July-2019
- **Version #**: 02

#### HMIS® ratings
- Health: 3*
- Flammability: 0
- Physical hazard: 0

#### 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

#### Disclaimer
Environmental Technology, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.