1. Identification

Product identifier: EX-74 Resin
Other means of identification:
- SDS number: 23500R
- Product code: 12025, 23500, 23500C.
- Recommended use: High Gloss Coating
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
- Manufacturer: Environmental Technology, Inc.
  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 identification

Physical hazards: Not classified.
Health hazards:
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2A
- Sensitization, skin: Category 1

Label elements:

Signal word: Warning
Hazard statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Precautionary statement:
- Prevention: Avoid breathing mist or vapour. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
- Response: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards: None known.
Supplemental information: Not applicable.

3. Composition/information on ingredients

Mixtures:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resin</td>
<td>80-100% wt/wt</td>
<td>25068-38-6</td>
<td></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
Move to fresh air. Call a physician if symptoms develop or persist. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion
Contact may produce eye irritation with associated redness, swelling, tears and pain. Contact causes skin irritation. May cause sensitisation by skin contact. Symptoms include redness, itching and pain. Rash. Dermatitis.

Most important symptoms/effects, acute and delayed
Contact may produce eye irritation with associated redness, swelling, tears and pain. Contact causes skin irritation. May cause sensitisation by skin contact. Symptoms include redness, itching and pain. Rash. Dermatitis.

Indication of immediate medical attention and special treatment needed
Exposure may aggravate pre-existing skin disorders. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

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, hazardous combustion products are released that may include: Carbon oxides (COx). 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. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapours or mists. Avoid contact with skin and eyes. 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. 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. Avoid breathing mists or vapours. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials (see Section 10 of the SDS). Store in tightly closed original container in a dry, cool and well-ventilated place. Read and follow manufacturer's recommendations.
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).

**Skin protection**

**Hand 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.

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

**Respiratory protection**
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**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**
Liquid.

**Colour**
Clear.

**Odour**
Slight.

**Odour threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
178 °C (352.4 °F)

**Flash point**
165.0 °C (329.0 °F) Setaflash Seta closed cup

**Evaporation rate**
Not available.

**Solubility**

**Solubility (water)**
Slightly soluble

**Partition coefficient**

**Relative density**
1.15

**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**
< 1

**Vapour density**
Not available.

**Relative density**
1.15

**Solubility(ies)**

**Solubility (water)**
Slightly soluble

**Partition coefficient**

**n-octanol/water**
Not available.
Auto-ignition temperature  
Not available.

Decomposition temperature 
Not available.

Viscosity  
3500 cP (77 °C (170.6 °F))

Other information  
- Density: 9.60 lb/gal
- Explosive properties: Not explosive.
- Oxidising properties: Not oxidising.
- Percent volatile: 0 % (VOC)

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 high temperatures. Contact with incompatible materials. Heating this resin above 300°F in the presence of air may cause slow oxidative decomposition. When product is mixed with Part B and left in a large mass a vigorous exothermic reaction may occur, and may result in charring of the reactants.

Incompatible materials  
Strong oxidising agents. Reacts violently with strong acids. Reacts violently with strong bases. Avoid contact with water and liquids. Do not allow molten product to contact water or other liquids. This can cause violent reactions.

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. Inhalation of vapours or mists of the product may be irritating to the respiratory system.

- **Skin contact**  
  Causes skin irritation. May cause an allergic skin reaction.

- **Eye contact**  
  Causes serious eye irritation.

- **Ingestion**  
  Under normal conditions of intended use, this material does not pose a risk to health. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics  
Contact may produce eye irritation with associated redness, swelling, tears and pain. Causes skin irritation. May cause sensitisation by skin contact. Symptoms include redness, itching and pain. Rash. Dermatitis.

Information on toxicological effects  
- **Acute toxicity**  
  Not expected to be a hazard under normal conditions of intended use. May be harmful if swallowed.

- **Skin corrosion/irritation**  
  Causes skin irritation.

- **Serious eye damage/eye irritation**  
  Causes serious eye irritation.

- **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. Resins of this type, liquid resins based on BisPhenolA/Epichlorohydrin (Epoxy Resin), have proved to be inactive when tested by in vivo mutagenicity assays.

- **Carcinogenicity**  
  This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

- **Reproductive toxicity**  
  Not classified.

- **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.
12. Ecological information

Ecotoxicity
Based on available data, the classification criteria are not met.

Persistence and degradability
Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the environment.

Bioaccumulative potential
No data is available on the degradability of this product.

Mobility in soil
No data available on bioaccumulation.

Other adverse effects
No data available.

13. Disposal considerations

Disposal instructions
Dispose in accordance with federal, provincial and local regulations. Do not discharge into drains, water courses or onto the ground.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
Not regulated.

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
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

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

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>
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</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<tr>
<td>Country(s) or region</td>
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<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<tr>
<td>Europe</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<td>New Zealand</td>
<td>New Zealand Inventory</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
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<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**: 08-August-2017
- **Revision date**: 21-July-2019
- **Version No.**: 02

**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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