SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name: SEEVENAX-Gelcoat 132-16 farblos / transparent
Use of the Substance/Mixture: Industrial serial painting
Company: Mankiewicz Coatings L.L.C
415 Jessen Lane
Charleston, South Carolina 29492 USA
Telephone: +1 843 654-7755
Emergency telephone: CHEMTREC 800-424-9300 or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Warning
Form: liquid, Color: according product name, Odor: characteristic
OSHA Hazards: SKIN SENSITIZER
MODERATE SKIN IRRITANT
MODERATE EYE IRRITANT

Potential Health Effects

Inhalation: No hazard in normal industrial use.
Skin: May cause allergic skin reaction. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May cause vomiting.

Carcinogenicity:

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of synthetic resins and pigments

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)</td>
<td>25068-38-6</td>
<td>30.00 - 60.00</td>
</tr>
<tr>
<td>REACTION PRODUCT: BISPHENOLF- (EPICHLORHYDRIN), EPOXY RESIN</td>
<td>28064-14-4</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.</td>
<td>68609-97-2</td>
<td>1.00 - 5.00</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

First aid procedures

General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

Skin contact : Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners!

Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Ingestion : Do NOT induce vomiting. If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person. Keep at rest.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : 214 °F (101 °C)
Method: ISO 2719

Fire extinguishing information

Method of fire extinguishing:Suitable extinguishers: water, foam, CO₂.
Fire fighting

Suitable extinguishing media : Not combustible under normal conditions. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Take the precautions customary when handling chemicals. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not let product enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Methods for containment / Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13). Clean preferably with a detergent; avoid use of solvents.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Avoid contact with the skin and the eyes. Smoking, eating and drinking should be prohibited in the application area. Observe specific national regulations for handling and use of paints.

Advice on protection against fire and explosion : Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

Storage

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Never use pressure to empty.
Further information on storage conditions: Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Advice on common storage: Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage temperature: 41 - 95 °F (5 - 35 °C)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Engineering measures:

Engineering measures: Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Personal protective equipment

Protective measures: Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

Eye protection: Use safety glasses or face shield (ANSI Z87.1 or approved equivalent).

Hand protection: Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only:

   Appropriate material: nitrile

Skin and body protection: Clothing as usual in the chemical industry. Skin should be washed after contact.

Respiratory protection: None, but avoid breathing vapors if possible.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid
Color: according product name
Odor: characteristic
Safety data

Flash point : 214 °F (101 °C)
Method: ISO 2719

Boiling point/boiling range : ca. 212 °F (100 °C)

Vapor pressure : ca. 100 hPa (75 mmHg)
at 122 °F (50 °C)

Density : ca.8 lb/gal (1 g/cm3)
at 68 °F (20 °C)

Water solubility : Note: insoluble

Flow time : > 150 s
4 mm
Method: DIN 53211

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Stable under recommended storage and handling conditions (See section 7).

Materials to avoid : Remarks: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products : Note: No hazardous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Further information : The liquid splashed in the eyes may cause irritation and reversible damage.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : There are no data available on the preparation itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT
UN-Number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(REACTION PRODUCT: BISPHENOL A-
(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700), REACTION PRODUCT: BISPHENOL-\(\text{F}\)-(EPICHLORHYDRIN), EPOXY RESIN)

Class: 9
Packing group: III
Labels: 9

IATA
UN-Number: 3082
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700), REACTION PRODUCT: BISPHENOL-\(\text{F}\)-(EPICHLORHYDRIN), EPOXY RESIN)

Class: 9
Packing group: III
Labels: 9
Packing instruction (cargo aircraft): 914
Packing instruction (passenger aircraft): Y914

IMDG
UN-Number: 3082
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700), REACTION PRODUCT: BISPHENOL-\(\text{F}\)-(EPICHLORHYDRIN), EPOXY RESIN)

Class: 9
Packing group: III
Labels: 9
EmS Number 1: F-A
EmS Number 2: S-F
Marine pollutant: No
Other information: If transported within the user’s premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Skin sensitizer, Moderate skin irritant, Moderate eye irritant
TSCA Status: y (positive listing)
All of the components of this product are either listed in the TSCA inventory or are not subject to the notification requirements (exempt).

**SARA 311/312 Hazards**
- Acute Health Hazard

**Clean Air Act Ozone-Depletion Potential**
- This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

**SARA 302 Reportable Quantity**
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**US CAA HAP**
- This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

**CAA112(r)**
- This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**CAA111**
- This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489).

**US State Regulations**

**California Prop. 65 Ingredients**
- This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**US Federal Regulations**

**Volatile organic compounds (VOC) content**
- VOC content excluding water: 0.08 lb/gal (0.01 g/cm^3)

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**SECTION 16. OTHER INFORMATION**

**Further information**

**HMIS Classification**
- Health Hazard: 2
- Flammability: 1
- Physical hazards: 0
Material Safety Data Sheet

Commercial Product Name: SEEVENAX-Gelcoat 132-16
Quality No.: 1321600000000

Version 1

Revision Date 07/03/2010
Print Date 07/08/2010

NFPA Classification

- Health Hazard: 2
- Fire Hazard: 1
- Reactivity Hazard: 0

Department issuing safety data sheet

UMCO Umwelt Consult GmbH
Georg-Wilhelm-Str. 183b, D-21107 Hamburg
Telefon: +49 (0)40 / 41 92 13 00 Fax: +49 (0)40 / 41 92 13 57 e-mail: umco@umco.de

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.