SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : SEEVENAX BR10H0-Hardener PC
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

Danger
Form: liquid, Color: according product name, Odor: amine-like
OSHA Hazards : TOXIC BY INHALATION.
HARMFUL BY INGESTION.
HARMFUL BY SKIN ABSORPTION.
SKIN SENSITIZER
CORROSIVE TO SKIN
CORROSIVE TO EYES

Potential Health Effects
Inhalation : Harmful if inhaled.
Skin : Causes skin burns.
May cause allergic skin reaction.
May be harmful if absorbed through skin.
Eyes : Causes eye burns.
Ingestion : May be harmful if swallowed.

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
ACGIH

equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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 : Hardener based on polyamine / amino adduct

Hazardous ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPHORONDIAMINE</td>
<td>2855-13-2</td>
<td>60.00 - 100.00</td>
</tr>
<tr>
<td>2-TERT-BUTYLPHENOL</td>
<td>88-18-6</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL</td>
<td>90-72-2</td>
<td>10.00 - 30.00</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
**Ignition temperature**: Remarks: no data available

**Lower explosion limit**: Remarks: no data available

**Upper explosion limit**: Remarks: no data available

### 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. Comply with the health and safety at work laws. Smoking, eating and drinking should be prohibited in the application area.

**Advice on protection against fire and explosion**: No special protective measures against fire required.

### Storage
Requirements for storage areas and containers: Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn.

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.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form : liquid
Color : according product name
Odor : amine-like

Safety data
Flash point : 214 °F (101 °C)
   Method: ISO 2719
Ignition temperature : Remarks: no data available
Lower explosion limit : Note: no data available
Upper explosion limit : Note: no data available
Boiling point/boiling range : ca. 212 °F (100 °C)
Vapor pressure : ca. 100 hPa (75 mmHg)
at 122 °F (50 °C)
Density : ca.7.84 lb/gal (0.94 g/cm3)
at 68 °F (20 °C)
Water solubility : Note: insoluble
Flow time : 30 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

Acute oral toxicity : Component: 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS-No.: 90-72-2)
   LD50 rat
   Dose: 1,670 mg/kg

Acute dermal toxicity : Component: 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS-No.: 90-72-2)
SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information:

Component: 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL 90-72-2

Toxicity to fish:
LC50
Species: Cyprinus carpio (Carp)
Dose: 718 mg/l
Exposure time: 96 h

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: 222 mg/l
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates:
EC50
Species:
Dose: 750 mg/l
Exposure time: 96 h

SECTION 13. DISPOSAL CONSIDERATIONS

Further information:
Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT
UN-Number: 3066
Description of the goods: PAINT RELATED MATERIAL
Class: 8
Packing group: II
Labels: 8

IATA
UN-Number: 3066
Description of the goods: PAINT RELATED MATERIAL
Class: 8
Packing group: II
Labels: 8
Packing instruction (cargo aircraft): 855
Packing instruction (passenger aircraft): 851
Packing instruction (passenger aircraft): Y840

IMDG
UN-Number: 3066
Description of the goods: PAINT RELATED MATERIAL
Class: 8
Packing group: II
Labels: 8
EmS Number 1: F-A
EmS Number 2: S.B

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: Toxic by inhalation., Harmful by ingestion., Harmful by skin absorption., Skin sensitizer, Corrosive to skin, Corrosive to eyes

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

New Jersey Right To Know Ingredients
California Prop. 65 Ingredients

Isophorondiamine 2855-13-2

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

0 lb/gal (0 g/cm³)

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: 3
Flammability: 1
Physical hazards: 0

NFPA Classification

Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0

Department issuing safety data sheet

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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.