

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Product Name / Trade Name  
Product use description

Mixture  
EPO-Guard™ EPO-260 Part B  
Curing agent

**Details of the supplier of the safety data sheet**

Company Identification

Res-Tek, Inc.  
110 Riverside Drive  
Cartersville, Georgia 30120  
United States of America

Telephone

1-888-737-8351 / 1-770-427-4034

**Emergency telephone number**

CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

## SECTION 2: HAZARDS IDENTIFICATION

**Hazard classification**

GHS Classification

Skin sens. 1; Skin corros. 1B; Serious eye damage 1; Repro. tox. 2;  
Acute tox., oral 4; Acute tox., dermal 4

**Label elements**

**Hazard pictograms**



**Signal Word(s)**

**DANGER**

**Hazard Statement(s)**

Harmful if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

**Hazards not otherwise classified**

Harmful in contact with skin.  
Harmful if swallowed.  
Corrosive.  
Severe skin irritant.  
Severe eye irritant.  
May cause sensitization by skin contact.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Component   | CAS Number   | Concentration |
|---|--------------|---------------|
| Aliphatic Ether Amine                             | 9046-10-0    | 40% – 70%     |
| Alkyl glycidyl ether Cycloaliphatic Ammonium Salt | Trade secret | 30% – 60%     |
| Nonylphenol                                       | 84852-15-3   | 10% - 30%     |

Chemical family: Aliphatic Amines

**SECTION 4: FIRST AID MEASURES**



**Description of first aid measures**

**General advice**

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

**Inhalation**

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

**Skin Contact**

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. **NOTE TO PHYSICIANS:** Application of corticosteroid cream has been effective in treating skin irritation.

**Eye Contact**

Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

**Ingestion**

Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

**Most important symptoms and effects, both acute and delayed**

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease. Skin disorders and Allergies. Asthma. Neurological disorders.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

-Suitable extinguishing media

Alcohol-resistant foam.  
Carbon dioxide (CO<sub>2</sub>).  
Dry chemical.

Dry sand.  
Limestone powder.

### Special hazards arising from the substance or mixture

|  |  |
|--|--|
| Specific hazards                               | May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes. |
| Special protective equipment for fire-fighters | Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.  |
| Further information                            | Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas. |
| <b>Environmental precautions</b>   | Construct a dike to prevent spreading.  |
| <b>Methods and material for containment and cleaning up</b>                | Approach suspected leak areas with caution. Place in appropriate chemical waste container.  |
| <b>Additional advice</b>   | Open enclosed spaces to outside atmosphere. If possible, stop flow of product.  |

## SECTION 7: HANDLING AND STORAGE

|                                      |   |
|--------------------------------------|---|
| <b>Precautions for safe handling</b> | Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke. |
| <b>Conditions for safe storage</b>   | Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.   |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                      |  |
|--------------------------------------|--|
| <b>Engineering measures</b>          | Provide readily accessible eye wash stations and safety showers.<br>Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits. |
| <b>Personal protection equipment</b> |  |
| Respiratory protection               | Wear appropriate respirator when ventilation is inadequate.  |



Skin protection (Hand protection/ Other)



Eye/face protection



Special instructions for protection and hygiene

**Exposure limit(s)**

Butyl-rubber Nitrile rubber. Neoprene gloves. Impervious gloves. PVC disposable gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots. Slicker Suit.

Full face shield with goggles underneath. Chemical resistant goggles must be worn.

Discard contaminated leather articles. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

None established.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|  |   |
|--|---|
| Appearance                             | Liquid. Clear to light yellow.                                      |
| Odor                                   | Ammonical.  |
| Odor threshold                         | Not available.  |
| pH                                     | Alkaline.   |
| Melting point /range                   | Not applicable.   |
| Boiling point/range                    | 401 °F (205 °C)   |
| Flash Point                            | 205 °F (96 °C)  |
| Evaporation rate                       | Not available.  |
| Flammability (solid, gas)              | Not applicable.   |
| Lower explosion limit                  | Not determined.   |
| Upper explosion limit                  | Not determined.   |
| Vapor pressure                         | <1.00 mmHg at 70 °F (21 °C)   |
| Relative vapor density                 | Not determined.   |
| Relative density                       | 0.92 (water = 1)  |
| Water solubility                       | Appreciable.  |
| Partition coefficient: n-octanol/water | No data available   |
| Autoignition temperature               | No data available   |
| Decomposition temperature              | No data available   |
| Viscosity                              | No data available   |
| Molecular weight                       | No data available   |
| Density                                | 57.44 lb/ft <sup>3</sup> (0.92 g/cm <sup>3</sup> ) at 70 °F (21 °C) |

### SECTION 10: STABILITY AND REACTIVITY

|                            |   |
|----------------------------|---|
| <b>Chemical Stability</b>  | Stable under normal conditions.   |
| <b>Conditions to avoid</b> | Short term exposures to temperatures above 300°C.<br>Potentially violent decomposition can occur above 350°C.<br>Generation of gas during decomposition can cause pressure in closed systems.   |
| <b>Materials to avoid</b>  | Reactive metals (e.g. sodium, calcium, zinc etc.).<br>Materials reactive with hydroxyl compounds. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids.<br>Sodium hypochlorite.<br>Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.<br>Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.<br>Oxidizing agents. |

**Hazardous decomposition products**

Nitric acid. Ammonia  
Nitrogen oxides (NOx).  
Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide.  
Carbon dioxide (CO2). Aldehydes  
Flammable hydrocarbon fragments

**Possibility of hazardous Reactions/Reactivity**

No data available.

### SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

**Likely routes of exposure**

|                    |   |
|--------------------|---|
| Effects on eye     | Causes eye irritation.  |
| Effects on skin    | Causes skin irritation.   |
| Inhalation effects | Harmful if inhaled and may cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. |
| Ingestion effects  | No data available.  |
| Symptoms           | Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease., Skin disorders and Allergies., Asthma.   |

**Acute toxicity**

|                       |  |
|-----------------------|--|
| Acute oral toxicity   | LD50 : 15,000 mg/kg Species : Rat.               |
| Inhalation            | LC50 (4h) : Species : Rat : not been determined. |
| Acute dermal toxicity | LD50 : 23,000 mg/kg Species : Rabbit.            |

**Skin corrosion/irritation**

Corrosive to the skin of a rabbit.

**Serious eye damage/eye irritation**

Severe eye irritation.

**Sensitization**

May cause sensitization by skin contact.

**Chronic toxicity or effects from long-term exposure**

|   |  |
|---|--|
| Carcinogenicity   | No data available.                       |
| Reproductive toxicity                                       | No data available on the product itself. |
| Germ cell mutagenicity                                      | No data available on the product itself. |
| Specific target organ systemic toxicity (single exposure)   | No data available.                       |
| Specific target organ systemic toxicity (repeated exposure) | No data available.                       |
| Aspiration hazard   | No data available.                       |

**Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure**

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1percent or greater. Prolonged contact may result in chemical burns and permanent damage., Repeated or prolonged contact causes sensitization, asthma and eczemas. Eye disease., Skin disorders and Allergies.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

|  |  |
|--|--|
| Acute toxicity in fish                       | No data available on the product itself.                                     |
| Toxicity to fish – Components Nonylphenol    | LC50 (96 h) : 0.128 mg/l<br>Species : Flathead minnow (Pimephales promelas). |
| Toxicity to daphnia – Components Nonylphenol | EC50 (48 h) : 0.19 mg/l<br>Species : Daphnia                                 |
| Toxicity to other organisms                  | No data available.   |
| Toxicity to bacteria                         | IC50 (18h) : >42.6 mg/l<br>Bacteria, Respiration rates.                      |

**Persistence and degradability**

|  |   |
|--|---|
| Biodegradability                         | No data is available on the product itself. |
| Mobility                                 | No data available.                          |
| Bioaccumulation                          | No data is available on the product itself. |
| Bioaccumulation – Components Nonylphenol | Moderate bioaccumulation potential.         |

**SECTION 13: DISPOSAL CONSIDERATIONS**

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Contact supplier if guidance is required.   |
| <b>Contaminated packaging</b>              | Dispose of container and unused contents in accordance with federal, state, and local requirements. |

**SECTION 14: TRANSPORT INFORMATION**

**DOT**

|                      |   |
|----------------------|---|
| UN/ID number         | UN2735  |
| Proper shipping name | Polyamines, liquid, corrosive, N.O.S. (polypropylenediamine, Nonylphenol) |
| Class or division    | 8   |
| Packing group        | III   |
| Label(s)             | 8   |
| Marine pollutant     | Yes   |

**IATA**

|                      |   |
|----------------------|---|
| UN/ID number         | UN2735  |
| Proper shipping name | Polyamines, liquid, corrosive, N.O.S. (Polypropylenediamine, Nonylphenol) |
| Class or division    | 8   |
| Packing group        | III   |
| Label(s)             | 8   |
| Marine pollutant     | Yes   |

**IMDG**

|                      |   |
|----------------------|---|
| UN/ID number         | UN2735  |
| Proper shipping name | Polyamines, liquid, corrosive, N.O.S. (Polypropylenediamine, Nonylphenol) |

|                   |     |
|-------------------|-----|
| Class or division | 8   |
| Packing group     | III |
| Label(s)          | 8   |
| Marine pollutant  | Yes |

**TDG**

|                      |   |
|----------------------|---|
| UN/ID number         | UN2735  |
| Proper shipping name | Polyamines, liquid, corrosive, N.O.S. (Polypropylenediamine, Nonylphenol) |
| Class or division    | 8   |
| Packing group        | III   |
| Label(s)             | 8   |
| Marine pollutant     | Yes   |

**Further Information**

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact Res-Tek, Inc.

### SECTION 15: REGULATORY INFORMATION

**Toxic Substance Control Act (TSCA) 12(b) Component(s): Nonylphenol.**

| Country     | Regulatory list | Notification   |
|-------------|-----------------|--|
| USA         | TSCA            | Included on Inventory.   |
| EU          | EINECS          | Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer. |
| Canada      | DSL             | Included on Inventory.   |
| Australia   | AICS            | Included on Inventory.   |
| Japan       | ENCS            | Included on Inventory.   |
| South Korea | ECL             | Included on Inventory.   |
| China       | SEPA            | Included on Inventory.   |
| Philippines | PICCS           | Included on Inventory.   |

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

### SECTION 16: OTHER INFORMATION

**Hazard Rating System HMIS**

Health: 3  
Flammability: 1  
Physical hazard: 0

**Information source and references**

This SDS is prepared by Res-Tek from information supplied by internal references within our company.

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