

## Wearcoat 1080 Part B

**1** **PRODUCT AND COMPANY IDENTIFICATION**

**Supplier Details:** Coatings for Industry, Inc.  
319 Township Line Road  
Souderton, PA 18964

**Emergency:** Infotrac  
**Contact:** 1-800-535-5053  
**Phone:** 215-723-0919  
**Fax:** 215-723-0911  
**Email:** cs@cficoatings.com  
**Web:** www.cficoatings.com

**2** **HAZARDS IDENTIFICATION****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 4  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 4 Dermal  
Health, Acute toxicity, 4 Inhalation  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Respiratory sensitization, 1  
Health, Skin sensitization, 1

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**

**GHS Hazard Statements:**

H227 - Combustible liquid  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H317 - May cause an allergic skin reaction

**GHS Precautionary Statements:**

P233 - Keep container tightly closed.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P285 - In case of inadequate ventilation wear respiratory protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.  
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
98-54-4	10-30%	Phenol, 4-(1,1-dimethylethyl)-
1477-55-0	5-10%	1,3-Benzenedimethanamine
25620-58-0	5-10%	Trimethylhexamethylenediamines
111-40-0	1-5%	Diethylenetriamine
107-15-3	1-5%	Ethylenediamine
110-85-0	1-5%	Piperazine
102-71-6	1-5%	Triethanolamine
25154-52-3	<1%	Nonylphenol

### 4 FIRST AID MEASURES

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Skin Contact:</b>	Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion:</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** >175F

**Extinguishing Media:** Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). 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.

**Protective Equipment:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.

#### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.  
**Large Spills:** 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  
**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  
Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

**Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

<b>7</b>	<b>HANDLING AND STORAGE</b>
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<b>Handling Precautions:</b>	Keep away from open flames, hot surfaces and sources of ignition. Do not get this material in contact with skin. Do not taste or swallow. Avoid breathing vapor. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.
<b>Storage Requirements:</b>	Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.

<b>8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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<b>Engineering Controls:</b>	Good general ventilation (typically 10 air changes per hour) 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. Provide eyewash station.
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<b>Personal Protective Equipment:</b>	<p>Personal protective equipment</p> <p>Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p>Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)</p> <p>Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.</p> <p>Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p>Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p> <p>Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p>
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1,3-Benzenedimethanamine (1477-55-0) [5-10%]

CEIL 0.1 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
1910.1000

Skin contact does contribute to exposure.

C 0.1 mg/m3 USA. NIOSH Recommended Exposure Limits  
Potential for dermal absorption

Diethylenetriamine (111-40-0) [1-5%]

TWA 1 ppm USA. ACGIH Threshold Limit Values (TLV)  
Eye & Upper Respiratory Tract irritation Danger of cutaneous absorption

Ethylenediamine (107-15-3) [1-5%]

TWA 10 ppm USA. ACGIH Threshold Limit Values  
(TLV)  
Not classifiable as a human carcinogen  
Danger of cutaneous absorption

Triethanolamine (102-71-6) [1-5%]

TWA 5 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values  
(TLV)  
Skin & eye irritation

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Amber	<b>Odor:</b>	Slight
<b>Physical State:</b>	Liquid	<b>VOC:</b>	0.28 lbs/gal Mixed components
<b>Spec Grav./Density:</b>	0.99		

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Chemical Stability:** The product is stable and non-reactive under normal conditions of use, storage and transport.  
**Materials to Avoid:** Alkaline metals. Peroxides. Phenols  
**Hazardous Decomposition:** No hazardous decomposition products are known.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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Phenol, 4-(1,1-dimethylethyl)- (98-54-4) [10-30%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - mouse - 1,030 mg/kg Remarks: Behavioral:Tetany. Behavioral:Irritability.

LD50 Oral - Mammal - 1,500 mg/kg

LCLO Inhalation - rat - 5.6 mg/l Remarks: Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Dermal - Mammal - 1,580 mg/kg

LD50 Intraperitoneal - mouse - 78 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Result: Mild skin irritation - 4 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Severe eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity - Hamster - Oral:

Tumorigenic:Neoplastic by RTECS criteria. Gastrointestinal:Tumors.

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

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

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

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

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: SJ8925000

Dizziness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

1,3-Benzenedimethanamine (1477-55-0) [5-10%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 930 mg/kg

Inhalation LC50 LC50 Inhalation - rat - female - 4 h - 1.16 mg/l

LC50 Inhalation - rat - male - 4 h - 1.38 mg/l

Dermal LD50 LD50 Dermal - rabbit - 2,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Severe skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation - 24 h

Respiratory or skin sensitisation: May cause allergic skin reaction.

Germ cell mutagenicity: no data available

Carcinogenicity:

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

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

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

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

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):  
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):  
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: PF8970000

Trimethylhexamethylenediamines (25620-58-0) [5-10%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 910 mg/kg

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: Causes skin burns.

Serious eye damage/eye irritation: Risk of serious damage to eyes.

Respiratory or skin sensitization: May cause allergic skin reaction.

Germ cell mutagenicity: no data available

Carcinogenicity:

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

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

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

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

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):  
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):  
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: Not available

Diethylenetriamine (111-40-0) [1-5%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 1,080 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold.

Inhalation LC50 LC50 Inhalation - rat - 4 h - 0.3 mg/l Remarks: Lungs, Thorax, or Respiration:Acute pulmonary edema.

Dermal LD50 LD50 Dermal - rabbit - 1,090 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Open irritation test

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

May cause allergic skin reaction.

Germ cell mutagenicity: no data available

Carcinogenicity:

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

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

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

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

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: IE1225000

Ethylenediamine (107-15-3) [1-5%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 1,200 mg/kg Remarks: Behavioral:Ataxia.

LC50 Inhalation - mouse - 300 mg/m3

no data available

Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Severe eye irritation

Respiratory or skin sensitisation: Germ cell mutagenicity:

no data available

Carcinogenicity:

Carcinogenicity - This product is or contains a component that is not classifiable as to its carcinogenicity based on its:

IARC, ACGIH, NTP, or EPA classification.

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

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

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

OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KH8575000

Vomiting, Diarrhoea, Abdominal pain

Liver - Irregularities - Based on Human Evidence

Piperazine (110-85-0) [1-5%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 2,600 mg/kg

Inhalation LC50 LC0 Inhalation - rat - 4 h - 0.8 mg/l

Dermal LD50 LD50 Dermal - rabbit - 8,300 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritatio Skin - rabbit - Causes burns

Serious eye damage/eye irritatio Eyes - rabbit - Severe eye irritation - 24

Respiratory or skin sensitisatio Maximisation Test - guinea pig - May cause sensitisation by skin contact

May cause sensitisation by inhalation

Germ cell mutagenicit

Carcinogenicit

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

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

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

Reproductive toxicit

Teratogenici

Specific target organ toxicity - single exposure (Globally Harmonized System:  
no data availabl

Specific target organ toxicity - repeated exposure (Globally Harmonized System:  
no data availabl

Aspiration haza

Potential health effect

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposur Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough Shortness of breath, Headache, Nause

Synergistic effect

Additional Informatio RTECS: TK7800000

Triethanolamine (102-71-6) [1-5%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - mouse - 5,846 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. Diarrhoea Kidney, Ureter, Bladder:Other changes.

LD50 Oral - rat - 5,530 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Diarrhoea Skin and Appendages: Other: Hair.

LD50 Oral - rabbit - 2,200 mg/kg

LD50 Oral - guinea pig - 2,200 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 22.5 g/kg

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,2,2-Nitrioltriethanol)

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

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

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

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KL9275000

Kidney injury may occur., Dermatitis

Liver - Irregularities - Based on Human Evidence

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## ECOLOGICAL INFORMATION

Phenol, 4-(1,1-dimethylethyl)- (98-54-4) [10-30%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 5.14 mg/l - 96.0 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 3.9 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Biodegradability Result: - Not readily biodegradable. Remarks: no data available

Bioaccumulative potential: Bioaccumulation Leuciscus idus melanotus - 3 d - 46 µg/l

Bioconcentration factor (BCF): 120

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

1,3-Benzenedimethanamine (1477-55-0) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - > 100 mg/l - 96.0 h.

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 16 mg/l - 48 h.

and other aquatic invertebrates

Persistence and degradability: Biodegradability Biotic/Aerobic Result: 0.40 % - Not readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

no data available

Trimethylhexamethylenediamines (25620-58-0) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 172.0 mg/l - 48.0 h.

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 31.5 mg/l - 24 h.

and other aquatic invertebrates

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - 29.5 mg/l - 72 h.

Persistence and degradability: Biodegradability Result: 7 % - According to the results of tests of biodegradability this product is not readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Diethylenetriamine (111-40-0) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Poecilia reticulata* (guppy) - 1,014 mg/l - 96 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Ethylenediamine (107-15-3) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 115.7 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 3 mg/l - 48 h.

other aquatic invertebrates

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 151 mg/l - 96 h.

Persistence and degradability: Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 94 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

Avoid release to the environment.

Piperazine (110-85-0) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Poecilia reticulata (guppy) - > 1,800 mg/l - 96.0 h.

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 21 mg/l - 48 h.

and other aquatic invertebrates

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - > 1,000 mg/l - 72 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

Triethanolamine (102-71-6) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 450 - 1,000 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia - 609.98 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Biodegradability Result: 96 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging: Dispose of as unused product.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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Not regulated for transportation

<b>15</b>	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

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Phenol, 4-(1,1-dimethylethyl)- (98-54-4) [10-30%] TSCA

1,3-Benzenedimethanamine (1477-55-0) [5-10%] MASS, OSHAWAC, PA, TSCA, TXAIR

Trimethylhexamethylenediamines (25620-58-0) [5-10%] TSCA

Diethylenetriamine (111-40-0) [1-5%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Ethylenediamine (107-15-3) [1-5%] CERCLA, CSWHS, EHS302, HAP, MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

Piperazine (110-85-0) [1-5%] HAP, MASS, PA, TSCA

Triethanolamine (102-71-6) [1-5%] HAP, MASS, PA, TSCA, TXAIR

Regulatory CODE Descriptions

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RQ = Reportable Quantity  
TSCA = Toxic Substances Control Act  
MASS = MA Massachusetts Hazardous Substances List  
OSHAWAC = OSHA Workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA = Superfund clean up substance  
CSWHS = Clean Water Act Hazardous substances  
EHS302 = Extremely Hazardous Substance  
HAP = Hazardous Air Pollutants  
NJHS = NJ Right-to-Know Hazardous Substances

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**OTHER INFORMATION**

**NOTICE:** This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.