

### Wearcoat 490 Part A

# PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Wearcoat 490 Part A

**Common Name:** Epoxy resin

SDS Number: 149

**Revision Date:** 11/17/2015

Version:

**Supplier Details:** Coatings For Industry, Inc.

319 Township Line Road Souderton, PA 18964

**Emergency:** Infotrac

Contact: USA: 1-800-535-5053 / International :352-323-3500

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):

Health, Reproductive toxicity, 1 B

Health, Respiratory or skin sensitization, 1 Skin

Health, Skin corrosion/irritation, 2

Health, Serious Eye Damage/Eye Irritation, 2 A

Physical, Flammable Liquids, 3

Health, Specific target organ toxicity - Single exposure, 3

Health, Acute toxicity, 4 Dermal Health, Acute toxicity, 4 Inhalation

Health, Acute toxicity, 5 Oral

Environmental, Hazards to the aquatic environment - Chronic, 2

## GHS Label elements, including precautionary statements

**GHS Signal Word: DANGER** 

# **GHS Hazard Pictograms:**









### **GHS Hazard Statements:**

H360 - May damage fertility or the unborn child

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H303 - May be harmful if swallowed

H411 - Toxic to aquatic life with long lasting effects

# **GHS Precautionary Statements:**

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.



### Wearcoat 490 Part A

Continue rinsing.

P273 - Avoid release to the environment.

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P264 - Wash hands and skin thoroughly after handling.

#### 3 COMPOSITION/INFORMATION OF INGREDIENTS

### Ingredients:

Cas#	%	Chemical Name
1330-20-7 25068-38-6 763-69-9 98-56-6 108-65-6	7-10% 27-29% 0-1% 16-19% 7-10%	Xylene Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane Propanoic acid, 3-ethoxy-, ethyl ester Benzene, 1-chloro-4-(trifluoromethyl)- 2-Propanol, 1-methoxy-, acetate

#### 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, oxygen should be

administered by qualified personnel. Call a physician or transport to a medical facility.

**Skin Contact:** Wash off in flowing water or shower.

**Eye Contact:** Irrigate immediately with water for at least 5 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency medical facility immediately.

#### 5 FIRE FIGHTING MEASURES

Flash Point: 80F (27C) **Flash Point Method: PMCC** 

LEL: 1.1% based on Xylene **UEL:** 7.0% based on Xylene

Extinguishing Media - Foam, Dry Chemical, Carbon Dioxide (CO2)

Fire and Explosion Hazards - Presence of xylene requires grounding. Keep away from possible ignition sources.

Fire Fighting Equipment - Wear positive pressure self-contained breathing apparatus.

#### 6 **ACCIDENTAL RELEASE MEASURES**

If Material is Spilled - Soak up in absorbent material such as sand and collect in suitable containers. Residual resin may be removed using steam or hot soapy water. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information and exposure guidelines. Keep spark producing equipment away. For large spills, evacuate upwind of spills and contain with dike.

#### 7 HANDLING AND STORAGE

**Handling Precautions:** General Handling: Keep away from heat, sparks and flame. Avoid prolonged or repeated contact with

skin. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Never use air pressure for transferring product. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Electrically bond and ground all containers and equipment before transfer or use of material. Containers, even those that have been emptied, can contain vapors. Do not cut, drill,

grind, weld, or perform similar operations on or near empty containers.

**Storage Requirements:** Minimize sources of ignition, such as static build-up, heat, spark or flame. Store in original container.



### Wearcoat 490 Part A

Keep container tightly closed.

# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Personal Protective Equipment: Provide general and/or local exhaust ventilation to control airborne levels below the TLV.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

Hand 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.

Body Protection: impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Xylene (1330-20-7)

Components with workplace control parameters

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1

435 mg/m3 Limits for Air Contaminants

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

435 mg/m3 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

655 mg/m3 1910.1000

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)

434 mg/m3

Not classifiable as a human carcinogen

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)

651 mg/m3

Not classifiable as a human carcinogen

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI section) Not classifiable as a human carcinogen

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI section) Not classifiable as a human carcinogen



### Wearcoat 490 Part A

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1

435 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

435 mg/m3 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

655 mg/m3 1910.1000

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (25068-38-6): no data available

Propanoic acid, 3-ethoxy-, ethyl ester (763-69-9): no data available

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) : no data available

2-Propanol, 1-methoxy-, acetate (108-65-6)

Components with workplace control parameters

TWA 50 ppm USA. Workplace Environmental Exposure Levels

(WEEL)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray

Physical State:Viscous liquidOdor:Solvent odorSpec Grav./Density:1.3-1.45Solubility:Negligible in water

Percent Volatile: 30-40

10 STABILITY AND REACTIVITY

Chemical Stability: This product is stable

**Conditions to Avoid:** Xylene may produce excessive pressure when heated.

Materials to Avoid: Bases

Hazardous Decomposition: The by products expected in complete pyrolysis or combustion of epoxy resins are mainly phenolics,

carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be

treated as potentially hazardous substances, and appropriate precautions should be taken.

Hazardous Polymerization: Will not occur by itself, but masses of more than one pound of product plus an aliphatic amine can cause

irreversible polymerization with considerable heat buildup.

11 TOXICOLOGICAL INFORMATION

Xylene (1330-20-7)

Acute toxicity:
Oral LD50 no data available
Inhalation LC50
Dermal LD50
Other information on acute to

Other information on acute toxicity Skin corrosion/irritation: no data available



### Wearcoat 490 Part A

Serious eye damage/eye irritation: Eyes: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

### Carcinogenicity:

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)

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. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (25068-38-6)

### Acute toxicity:

Oral LD50 CD50 Oral - rat - 13,600 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or

Respiration: Dyspnea. Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: May cause sensitization by skin contact.

Germ cell mutagenicity: no data available Genotoxicity in vitro - Ames test - positive

### 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

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. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

### Propanoic acid, 3-ethoxy-, ethyl ester (763-69-9)



### Wearcoat 490 Part A

Acute toxicity:

Oral LD50 LD50 Oral - rat - male - > 5,000 mg/kg

LD50 Oral - rat - female - 4,309 mg/kg

Inhalation LC50 LC50 Inhalation - rat - male - 6 h - > 998 ppm

Dermal LD50 LD50 Dermal - rabbit - male - 4,080 mg/kg

LD50 Dermal - rabbit - female - 4,680 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - No skin irritation - 4 h - OECD Test Guideline 404

Serious eye damage/eye irritation: Eyes - rabbit - No eye irritation - 24 h - OECD Test Guideline 405

Respiratory or skin sensitisation: guinea pig - Does not cause skin sensitisation. - OECD Test Guideline 406 Germ cell mutagenicity: Genotoxicity in vitro - S. typhimurium - with and without metabolic activation - negative

### 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. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Nausea, Headache, Vomiting, Central nervous system depression, Dizziness

Additional Information:

Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 1,000 mg/kg RTECS: UF3325000

## Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)

Acute toxicity:

LD50 Oral - rat - 13,000 mg/kg Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Human Embryo Unscheduled DNA synthesis

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

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



### Wearcoat 490 Part A

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

Specific target organ toxicity - repeated exposure: no data available

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

### 2-Propanol, 1-methoxy-, acetate (108-65-6)

Acute toxicity:

Oral LD50 LD50 Oral - rat - 8,532 mg/kg Inhalation LC50 no data available Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg

Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit - No skin irritation Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: Maximisation Test - guinea pig - Did not cause sensitisation on laboratory animals.

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

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

no data available

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

no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# 12

# **ECOLOGICAL INFORMATION**

## Xylene (1330-20-7)

Toxic to aquatic life.

# Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (25068-38-6)

Persistence and degradability: Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable. Remarks: no data available

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

### Propanoic acid, 3-ethoxy-, ethyl ester (763-69-9)

Toxicity:

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 55.3 mg/l - 96 h.

Method: OECD Test Guideline 203



### Wearcoat 490 Part A

static test LC50 - Pimephales promelas (fathead minnow) - 45.3 mg/l - 96 h

Toxicity to daphnia Immobilization EC50 - Daphnia magna (Water flea) - > 479.7 mg/l - 48 h.

and other aquatic Method: OECD Test Guideline 202 invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 785 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - Selenastrum capricornutum (green algae) - > 114.86 mg/l - 72 h.

Method: OECD Test Guideline 201

Toxicity to bacteria Growth inhibition IC50 - other microorganisms - > 5,000 mg/l - 16 h.

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

Harmful to aquatic life.

# 2-Propanol, 1-methoxy-, acetate (108-65-6)

Toxicity:

Toxicity to fish mortality LC50 - Salmo gairdneri - 100 - 180 mg/l - 96 h.

Method: OECD Test Guideline 203

Toxicity to daphnia Immobilization EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h.

and other aquatic Method: Tested according to Annex V of Directive 67/548/EEC. invertebrates

Persistence and degradability: Biodegradability Biotic/Aerobic Result: 100 % - Readily biodegradable.

Other adverse effects: Biochemical Oxygen 0.36 mg/l Demand (BOD)

Chemical Oxygen 1.74 mg/g Demand (COD)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

# Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (25068-38-6)

Information on ecological effects

Toxicity: no data available

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

Toxic to aquatic life with long lasting effects.

no data available

# Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available 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



### Wearcoat 490 Part A

13

# **DISPOSAL CONSIDERATIONS**

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Comply with all federal, state, and local laws concerning hazardous waste.

Contaminated packaging: Dispose of as unused product.

14

## TRANSPORT INFORMATION

UN1263, Paint, 3, PGIII

IATA

UN/ID No.: UN1263

Proper shipping name:Paint

Class or Division: 3 Packing group: III Label(s): 3

RQ Substance: Yes

**IMDG** 

UN/ID No.: UN1263

Proper shipping name:Paint

Class or Division: 3 Packing group: III Label(s): 3

RQ Substance : Yes

15

# REGULATORY INFORMATION

Component (CAS#) [%] - CODES

-----

RQ(100LBS), Xylene (1330-20-7) [7-10%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane (25068-38-6) [27-29%] TSCA

Propanoic acid, 3-ethoxy-, ethyl ester (763-69-9) [0-1%] TSCA

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) [16-19%] TSCA

2-Propanol, 1-methoxy-, acetate (108-65-6) [7-10%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

EPCRAWPC = EPCRA Water Priority Chemicals

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

SANASIS - SANA SIS TICIC III TOXIC CICIIICATS



### Wearcoat 490 Part A

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

# 16 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, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state, and local laws and regulations