

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name : PG- 1 Epoxy Side B, PG-1 FC Side B : Curing Agent
Product Use Description : Absolute Protective Coatings
Manufacturer / Distributor :
1265 Hendrickson Drive
Kalama, WA 98625
USA
Telephone : 360-673-6404

24 Hour Emergency Telephone : 360-261-3166 or 360-751-0091

Section 2. HAZARDS IDENTIFICATION

GHS classification

Acute toxicity – Oral Category 4
Acute toxicity – Inhalation Category 4
Skin corrosion - Category 1B
Serious eye damage - Category 1
Skin sensitization - Category 1
Reproductive Toxicity - Category 2
Specific target organ toxicity – single exposure Category 3
Specific target organ toxicity – repeated exposure – oral Category 2

GHS label elements

Hazard pictograms / symbols



Signal word: DANGER

H302 + H332 : Harmful if swallowed or if inhaled.
H314 : Causes severe skin burns and eye damage
H317 : May cause an allergic skin reaction
H318 : Causes serious eye damage
H335 : May cause respiratory irritation
H361 : Suspected of damaging fertility or the unborn child
H373a : May cause damage to organs through prolonged repeated exposure if swallowed.

(Section 2 continued, Hazards Identification)

Precautionary Statements:

- Prevention : P201: Obtain special instructions before use.
 : P261: Avoid breathing dust/ fume/ gas/mist/vapours/spray
 : P264: Wash hands thoroughly after handling.
 : P280: Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P301+P330+P331 :If SWALLOWED: rinse mouth. Do NOT induce vomiting.
 :P303+P361+P353 :If ON SKIN or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 : P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 : P308+P313 :IF exposed or concerned: Get medical advice/attention.
 : P310 :Immediately call a POISON CENTER/doctor.
 : P333+P313 :IF SKIN irritation or rash occurs: Get medical advice/attention
- Disposal : P501 :Disposal of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified

- Corrosive
- Components of the product may affect the nervous system
- Severe eye irritant
- May cause sensitization by skin contact
- Toxic by inhalation
- Harmful if swallowed

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration
Benzyl alcohol	100-51-6	25-35%
Paratertiarybutylphenol	98-54-4	> 20%
Benzene-1,3-dimethanamine	1477-55-0	<15%
Methyleneoxide, polymer with benzenamine hydrogenated	135108-88-2	<20%
Nonyl phenol	84852-15-3	2-3%
Trimethylhexamethylenediamine	25620-58-0	<10%
Organic acid	Not available	1-3%

Section 4 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.
- Eye contact : Rinse immediately with plenty of water and under the eyelids for 20 minutes or until patient receives medical care. If medical care is not promptly available, continue to irrigate eyes for one hour.
- Skin contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until 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.
- 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.
- 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.

Most important symptoms/: Eye disease. Skin disorders and Allergies. Asthma. Neurological disorders. effects – acute and delayed

Immediate Medical Attention and Special Treatment

: NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Section 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
: Carbon dioxide (CO₂)
: Dry chemical
: Dry sand
: Limestone powder.

- Specific hazards : Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NO_x) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gasses. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

(Section 5 Fire Fighting Measures continued)

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

Personal precautions, Protective equipment and Emergency procedures : Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Environmental precautions : Use appropriate containment to avoid environmental contamination. Construct a dike to prevent spreading.

Methods for cleaning up : Contact Absolute Protective Coatings, Inc. 24 hour number for advice. Approach suspected leak areas with caution. Place recovered material and contaminated material in appropriate chemical waste container.

Additional advice : Open enclosed spaces to outside atmosphere. Evacuate area and do not approach spilled product. If possible, stop flow of product.

Section 7. HANDLING AND STORAGE

Handling

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated area.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

(Section 8. Exposure Controls / Personal Protection continued)**Personal protective equipment**

Respiratory protection	: Wear appropriate respirator when ventilation is inadequate.
Hand protection	: Butyl rubber Nitrile rubber Neoprene gloves PVC disposable gloves Polyvinyl Alcohol gloves PVA Impervious 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.
Eye protection	: Chemical resistant goggles must be worn.
Skin and body protection	: Long sleeve shirts, trousers without cuffs. Impervious clothing
Environmental exposure	: Construct a dike to prevent spreading.
Special instructions	: Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected body area with water for at least 15 minutes.

Exposure Limits

Benzene-1,3 dimethaneamine	Ceiling Limit Value ACGIH	0.1 mg/M3
Benzene-1,3-dimethaneamine	Ceiling Limit Value and time period NIOSH	0.1 mg/M3
Benzene-1-3 dimethaneamine	Ceiling Limit Value OSHA Z1A	0.1 mg/M3
Benzene-1-3 dimethaneamine	Ceiling Limit Value US CA OEL	0.1 mg/M3
Benzyl Alcohol	Time Weighted Average (TWA): WEEL	44.20 mg/M3

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid. Light yellow
Odor	: Fishy smell
Odor threshold	: No data available
pH	: Alkaline
Melting point / range	: No data available
Boiling point / range	: 446 F (230 C)
Flash point	: >200 F (>93.33 C)
Evaporation rate	: No data available
Flammability (solid / gas)	: Not applicable
Upper /lower explosion limit	: Not applicable
Vapor pressure	: 7.5 mm Hg
Water solubility	: Slight
Relative vapor density	: Not applicable.
Relative density	: 1.1 (water = 1)
Viscosity	: 200 – 350 mPa.s at 77 F (25 C)
Decomposition temperature	: No data available

Section 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions
Conditions to avoid	: No data available
Materials to avoid	: Reactive metals (e.g. sodium, calcium, zinc etc.) Materials reactive with hydroxyl compounds. carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Organic acids (i.e. acetic acid, citric acid etc.) Mineral acids Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents
Hazardous decomposition	: Nitric acid
Products	Ammonia Nitrogen oxides (NO _x) Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide Carbon dioxide (CO ₂) Aldehydes Flammable hydrocarbon fragments Nitrosamine Organic acid vapors

Section 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS—LIKELY ROUTES OF EXPOSURE

	cause blindness.
Effects on Skin	: Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.
Inhalation effects:	May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.
Ingestion effects	: Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.
Symptoms	: Repeated and / or prolonged exposure to low concentrations of vapors and or aerosols may cause: Sore throat. Neurological disorders, Asthma, Skin disorders and Allergies, Eye disease.

(Section 11. Toxicological Information continued)

ACUTE TOXICITY

Acute oral toxicity	: LD50 : 1200 mg/kg Species Rat
Inhalation	: No data available
Inhalation components	
Benzyl Alcohol	: LC50 (4 h) : 4.178 MG/L: Species Rat
Acute dermal toxicity	: No data is available on the product itself.
Benzyl alcohol	: LD50 : 2000 mg/kg : Species Rabbit
Methylenebiscyclohexanamine-4,4-	
	: LD50 : 2110 mg/kg ; Species Rabbit
Methyleneoxide, polyer with benzenamine, hydrogenated	
	: LD50 : > 2000 mg/kg estimated : Species Rabbit
Skin corrosion	: Mild irritant to the skin of a rabbit.
Serious eye damage	: Risk of serious damage to eyes
Sensitization	: May cause sensitization of susceptible persons by skin contact.

CHRONIC TOXICITY OR EFFECTS FROM LONG TERM EXPOSURES

Carcinogenicity	: No data available
Reproductive toxicity	: No data available on product itself.
Germ cell mutagenicity	: No data available on product itself.
Specific target organ systemic toxicity (single 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 0.1 PERCENT OR GREATER. NEUROLOGICAL DISORDERS, EYE DISEASE, SKIN DISORDERS AND ALLERGIES SHOW NO SHORT OR LONG TERM CARCINOGENICITY IN A TWO YEAR STUDY.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS

Aquatic toxicity : No data is available on the product itself.

The following trials were performed to test toxicity on:

1. FISH, LC50, for 96 hours : 46 mg/l, 100 mg/l, 63 mg/l for Methylenebiscyclohexanamine, 4,4'
2. WATER FLEAS, EC50, for 48 hours : 6.84 mg/l, 15.4 mg/l for Methylenebiscyclohexanamine, 4,4' and Methyleneoxide, polymer with benzenamine, hydrogenated.
3. ALGAE, EC50, for 72 hours : 700 mg/l, 140-200 mg/l, 43.9 mg/l for benzyl alcohol, Methylenebiscyclohexanamine, 4,4', Methyleneoxide, polymer with benzenamine, hydrogenated.

PERSISTENCE AND DEGRADABILITY

Biodegradability	: No data is available on the product itself.
Mobility	: No data is available on the product itself
Bioaccumulation	: No data is available on the product itself

(Section 12. Ecological Information continued)

BIOACCUMULATION OF COMPONENTS

- Benzyl alcohol : Low bioaccumulation potential
- Methylenebiscyclohexanamine, 4,4' : Low bioaccumulation potential
- Methyleneoxide, polymer with benzenamine, hydrogenated : Does not bioaccumulate

Section 13. DISPOSAL CONSIDERATIONS

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

Section 14. TRANSPORTATION INFORMATION

- DOT**
- UN / ID NO. : UN2735
 - Proper shipping name : Amines, liquid, corrosive, N.O.S., (Aliphatic amine)
 - Class or Division : 8
 - Packing group : III
 - Label(s) : 8
 - Marine Pollutant : Yes

- IATA**
- UN / ID NO. : UN2735
 - Proper shipping name : Amines, liquid, corrosive, N.O.S., (Aliphatic amine)
 - Class or Division : 8
 - Packing group : III
 - Label(s) : 8
 - Marine Pollutant : Yes

- IMDG**
- UN / ID NO. : UN2735
 - Proper shipping name : Amines, liquid, corrosive, N.O.S., (Aliphatic amine)
 - Class or Division : 8
 - Packing group : III
 - Label(s) : 8
 - Marine Pollutant : Yes

- TDG**
- UN / ID NO. : UN2735
 - Proper shipping name : Amines, liquid, corrosive, N.O.S., (Aliphatic amine)
 - Class or Division : 8
 - Packing group : III
 - Marine Pollutant : Yes

****NOTE:** This product contains a substance that: 1) Is regulated as a Marine Pollutant, or 2) Meets the definition of toxic to the aquatic environment.

(Section 14. Transportation Information continued)

FURTHER INFORMATION:

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact Absolute Protective Coatings customer service.

Section 15. REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S)

NONE.

<u>Country</u>	<u>Regulatory List</u>	<u>Notification</u>
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

HMIS Rating

Health : 3
Flammability : 1
Physical hazard : 1

Date: : 03/10/2017

FOR ADDITIONAL INFORMATION, PLEASE VISIT www.absoluteconcretecolors.net for product data sheets or call 360-673-6404.

