

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT : Protect-1000CR Part B

MSDS DATE: 9/16/14

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Protect-1000AM Part B
PRODUCT CODES: Protect-1000AM-B/55, Protect-1000AM-B/5, Protect-1000AM-B/1
MANUFACTURER: Protective Industrial Polymers
ADDRESS: 7875 Bliss Parkway North Ridgeville, Ohio 44039

EMERGENCY PHONE:
CHEMTREC PHONE: 800-424-9300 (outside USA) 703-527-3887
OTHER CALLS: 440-327-0015

PRODUCT USE: Industrial Use Only
PREPARED BY: MEY

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>CAS NO.</u>	<u>% WT</u>	<u>Name</u>
100-51-6	35-40	Benzyl Alcohol
2855-13-2	10-20	3-aminomethyl-3,4,4-trimethylcyclohexylamine
2579-20-6	10-20	1,3-Cyclohexanediamethaneamine
25068-38-6	5-10	Phenol, 4,4'-(1-methylethyidene)bis-,polymer with (chloromethyl)oxirane
25154-52-3	<5	Nonylphenol
65-85-0	<5	Benzoic Acid
39423-51-3	<5	Polyetheramine

This material is HAZARDOUS by OSHA Hazard Communication definition

Signal Word:
CAUTION

Hazards:
Harmful if swallowed.
Corrosive
Components of the product may affect the nervous system.
Severe skin irritant.
Severe eye irritant.
May cause sensitization by skin contact.
Harmful in contact with skin.

Appearance: Clear liquid

ROUTES OF ENTRY: Eyes, Skin, respiratory tract

POTENTIAL HEALTH EFFECTS

Inhalation :

Can cause severe eye, skin and respiratory tract burns. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

Eye contact :

Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact :

Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Harmful in contact with skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Ingestion :

Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. 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.

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Chronic Health Hazard :

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

Exposure Guidelines

Target Organs :

Skin.

Eyes.

Central nervous system.

Aggravated Medical Condition

Eye disease, skin disorders and allergies. Adverse skin effects. Adverse eye effects. Adverse respiratory effects.

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 :

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. Rinse immediately with plenty of water also under the eyelids for at least 20 minutes.

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.

Ingestion :

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation :

Move to fresh air.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam.

Carbon dioxide (CO2).

Dry chemical.

Dry sand.

Limestone powder.

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.

NFPA HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0
PROTECTION:

SPECIAL FIRE FIGHTING PROCEDURES: Material will not burn unless preheated.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions :

Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental precautions :

Construct a dike to prevent spreading. Construct a dike to prevent spreading.

Methods for cleaning up :

Approach suspected leak areas with caution. Contact Air Products' Emergency Response Center for advice. Place in appropriate chemical waste container.

Additional advice :

Evacuate area and do not approach spilled product . If possible, stop flow of product.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid all sources of ignition: heat, sparks, and open flames.

OTHER PRECAUTIONS:For Industrial Use Only.

SECTION 7 NOTES: Keep container tightly closed and dry; store in a cool place.

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.

Personal protective equipment

Respiratory protection : Not required for properly ventilated areas.

Hand protection :

Neoprene gloves.

Butyl-rubber

Nitrile rubber.

Impervious gloves.

PVC disposable gloves

The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye protection :

Full face shield with goggles underneath.

Chemical resistant goggles must be worn.

Skin and body protection : Slicker Suit.

Impervious clothing.

Full rubber suit (rain gear).

Rubber or plastic boots.

Long sleeve shirts and trousers without cuffs.

Environmental exposure controls:

Construct a dike to prevent spreading.

Special instructions for protection and hygiene:

Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye

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wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear ammoniacal smelling liquid

PHYSICAL STATE: liquid

Color : Clear

Odor : Ammoniacal.

Relative density : 1.03 (water = 1)

Vapor pressure : 0.02mmHg at 70 °F (21 °C)

Density : 64.301 lb/ft³ (1.03 g/cm³) at 70 °F (21 °C)

pH : Alkaline.

Boiling point/range : > 392 °F (> 200 °C)

Flash point : > 124 °C Pensky Marten CC

Specific Gravity: 1:00 g/cm³ at 25°C

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability :

Stable under normal conditions.

Materials to avoid :

Sodium hypochlorite.

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

CAUTION! N-Nitrosamines, many of which are known to be potent 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.

Reactive metals (e.g. sodium, calcium, zinc etc.).

Materials reactive with hydroxyl compounds.

Oxidizing agents.

Hazardous decomposition products:

Nitric acid.

Ammonia

Nitrogen oxides (NO_x).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide.

Carbon dioxide (CO₂).

Aldehydes

Flammable hydrocarbon fragments.

Nitrosamine.

SECTION 11: Toxicological Information

Acute Health Hazard:

Ingestion : LD₅₀ : > 500 mg/kg Species : Rat.

Method : Estimated.

Inhalation : No data is available on the product itself.

Inhalation - Components

Benzyl alcohol LC₅₀ (4 h) : > 4.178 mg/l

OECD Test Guideline 403

Species : Rat.

Dermal : No data is available on the product itself.

Dermal- Components

Methyleneoxide, polymer with

benzenamine, hydrogenated

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LD50 : > 1,000 mg/kg Species : Rabbit.

Benzyl alcohol LD50 : 2,000 mg/kg Species : Rabbit.

Methylenebis(cyclohexyl)amine, 4,4'- LD50 : 2,110 mg/kg Species : Rabbit.

Tris-2,4,6-(dimethylaminomethyl)pheno

|

LD50 : 1,242 mg/kg Species : Rabbit.

Eye irritation/corrosion : Severe eye irritation.

Skin irritation/corrosion : Severe skin irritation.

Sensitization : Dermal sensitization to this product or component has been seen in some humans.

Chronic Health Hazard

The product or a component may be mutagenic, the data is inconclusive. Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28-day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day. Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Toxicity to fish - Components

Benzyl alcohol LC50 (96 h) : 10 mg/l Species : Bluegill sunfish (*Lepomis macrochirus*).

Benzyl alcohol LC50 (96 h) : 460 mg/l Species : Fathead minnow (*Pimephales promelas*).

Methylenebis(cyclohexyl)amine, 4,4'- LC50 (96 h) : 46 - 100 mg/l Species : Golden orfe (*Leuciscus idus*).

ECOLOGICAL INFORMATION:

See component summary.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization. If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT

UN/ID No. : UN3066

Proper shipping name : Paint

Class or Division : 8

Packing group : III

Label(s) : 8

IATA

UN/ID No. : UN3066

Proper shipping name : Paint

Class or Division : 8

Packing group : III

Label(s) : 8

SECTION 15: REGULATORY INFORMATION

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

None.

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es)

Corrosive. Sensitizer.

Country Regulatory list Notification

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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 Chronic 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

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: This MSDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200, 91/155/EEC and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, No Guarantee, Warranty, or representation is made, intended, or implied as to the correctness, or sufficiency of any information, or as to the merchantability or suitability or fitness of any chemical compounds or other products for any use thereof and are not subject to a claim by a third party for infringement of any patent or other intellectual property right. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper standards. Toxicity and risk characteristics of chemical compounds of products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.