

Material Safety Data Sheet

Version 2.4 Revision Date 05/18/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Magmaflow Grout-Pak CF, B Component

Pilgrim Permocoat, Inc.
402 S. 22nd. Street
Tampa, Florida 33605
(800) 637-3328

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Aliphatic Amines.

Components	CAS Number	Concentration (Weight)
Paratertiarybutylphenol	98-54-4	<50%
Benzene-1,3-dimethaneamine (MXDA)	1477-55-0	<30%
Trimethylhexamethylenediamine (TMD)	26520-58-0	>25%
Nonylphenol	25154-52-3	<=5%

3. HAZARDS IDENTIFICATION

Emergency Overview

Harmful if swallowed.

Corrosive.

Components of the product may affect the nervous system.

Severe eye irritant.

Severe respiratory irritant.

May cause sensitization by skin contact.

Potential Health Effects

Inhalation :

Harmful if inhaled and may cause delayed lung injury. Can cause severe eye, skin and respiratory tract burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Eye contact:

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glauropsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. 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.

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

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headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

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. May cause allergic skin reaction.

Exposure Guidelines

Target Organs Skin. Eyes.
 Respiratory system.
 Central nervous system.

Symptoms: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.

Aggravated Medical Condition

Eye disease Skin disorders and Allergies. Asthma. Neurological disorders

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.

Skin contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. 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. 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. 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.

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 gases. Burning produces

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noxious and toxic fumes. Downwind personnel must be evacuated.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: 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: Construct a dike to prevent spreading.

Methods for cleaning up: Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional advice: Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

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 place.

Technical measures/Precautions

Do not store in reactive metal containers.

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 : Wear appropriate respirator when ventilation is inadequate.

Hand protection: Butyl-rubber Nitrile rubber. Neoprene gloves. PVC disposable gloves Impervious

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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.

Environmental exposure controls: Construct a dike to prevent spreading.

Special instructions for protection and hygiene:

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

Exposure limit(s)

Benzene-1,3 Dimethaneamine (MXDA)	Ceiling Limit Value: ACGIH	-	0.1 mg/m3
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Benzene-1,3 Dimethaneamine (MXDA)	Ceiling Limit Value and Time Period (if specified); NIOSH	-	0.1 mg/m3
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: Amber.
Odor	: Fishy.
Relative density	:0.974 (water = 1
Vapor pressure	:< 10.34 mmHg at 21 °C
Density	:61.804 lb/ft3 (0.99 g/cm3) at 70 °F (21 °C)
pH	: Alkaline
Boiling point/range	:446 °F (230 °C)
Flash point	:>93.33°C
Water solubility	:< 0.1 g/l

10. STABILITY AND REACTIVITY

Stability :

Stable under normal conditions.

Materials to avoid:

Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. 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. 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 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 (e.g., acetylene). Nitrosamine

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion: LD50 : 1,750 mg/kg Species : Rat.

Inhalation : No data is available on the product itself.

Skin :LD50 : > 2,000 mg/kg

Species : Rabbit.

Method : Estimated.

Eye irritation/corrosion: Severe eye irritation

Acute dermal irritation/corrosion :Severe skin irritation., Corrosive to the skin of a rabbit.

Sensitization: May cause sensitization by skin contact.

Chronic Health Hazard The product or a component may be mutagenic, the data is inconclusive.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Toxicity to fish - Components

Nonylphenol LC50 (96 h) : 0.128 mg/l Species : Fathead minnow (Pimephales promelas).

Toxicity to daphnia - Components

Nonylphenol EC50 (48 h) : 0.0848 mg/l

Nonylphenol EC50 (48 h) : 0.19 mg/l

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Toxicity to other organisms: No data available.

Persistence and degradability

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components Nonylphenol: Moderate bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused: Contact supplier if guidance is required. Products

Contaminated packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Proper shipping name : Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (MXDA), Trimethylhexane-1,6-diamine)

Class : 8

UN/ID No. : UN2735

Packing group : II

15. REGULATORY

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es) Corrosive. Sensitizer.

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.

WHMIS Hazard Classification

Toxic Material Causing Other Toxic Effects, Corrosive Material

16. OTHER INFORMATION

HMIS Rating

Health 3

Flammability 1

Physical hazard 0