



Revision Number: 004.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Fixmaster Deep Pour Grout	IDH number:	702290
Product type:	Epoxy Hardener	Item number:	99545_204000
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Liquid	HEALTH:	*3
Color:	Blue	FLAMMABILITY:	1
Odor:	amine-like	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8
DANGER:	CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.		

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation:	Allergic respiratory reaction. Can cause severe irritation and burns to the respiratory tract. Inhalation of mist or spray may be harmful.
Skin contact:	May cause skin burns. May cause allergic skin reaction. Rash. Redness. May be harmful if absorbed through skin. May cause nausea, headache and general discomfort if absorbed through skin.
Eye contact:	Burns. Severe eye irritation. Redness. Tissue damage. Tearing. Pain and discomfort. Burns of the eye may cause blindness. Corneal edema may give appearance of "blue haze" or "fog" around lights.
Ingestion:	If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach. May cause an aspiration hazard if swallowed. Aspirated material can enter the lungs and result in pneumonitis. May be harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Skin allergies. Asthma.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
N-Aminoethylpiperazine	140-31-8	30 - 60
Triethylenetetramine	112-24-3	10 - 30
2-(2-Aminoethylamino)ethanol	111-41-1	5 - 10
Diethylenetriamine	111-40-0	1 - 5
2-Piperazin-1-ylethanol	103-76-4	1 - 5
Carbon black	1333-86-4	1 - 5

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F) ; Estimated
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind should be evacuated. 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.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Ammonia. Toxic fumes. Irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Remove all sources of ignition. Immediately contact emergency personnel. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling: Do not taste or swallow. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Storage: Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
N-Aminoethylpiperazine	None	None	None	None
Triethylenetetramine	None	None	1 ppm (6 mg/m ³) TWA (SKIN)	None
2-(2-Aminoethylamino)ethanol	None	None	None	None
Diethylenetriamine	(SKIN) 1 ppm TWA	None	None	None
2-Piperazin-1-ylethanol	None	None	None	None
Carbon black	3 mg/m ³ TWA Inhalable fraction.	3.5 mg/m ³ TWA	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Blue

Odor: amine-like

Odor threshold: Not available.

pH: Not available.

Vapor pressure: 0 mm hg (20 °C (68°F))

Boiling point/range: 224 °C (435.2 °F)

Melting point/ range: Not available.

Specific gravity: 0.988

Vapor density: 4.2

Flash point: > 93 °C (> 199.4 °F) ; Estimated

Flammable/Explosive limits - lower: Not available.

Flammable/Explosive limits - upper: Not available.

Autoignition temperature: Not available.

Evaporation rate: Not available.

Solubility in water: Soluble

Partition coefficient (n-octanol/water): Not available.

VOC content: < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Ammonia. Toxic fumes. Irritating vapors.
Incompatible materials:	Acids. Acrylates. Alcohols. Aldehydes. Ketones. Peroxides. Reactive metals. Strong alkalis. Strong oxidizing agents. Sodium hypochlorite. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Do not mix this product with nitrites or other nitrosating agents because a carcinogenic nitrosamine may be formed.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
N-Aminoethylpiperazine	No	No	No
Triethylenetetramine	No	No	No
2-(2-Aminoethylamino)ethanol	No	No	No
Diethylenetriamine	No	No	No
2-Piperazin-1-ylethanol	No	No	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
N-Aminoethylpiperazine	Irritant, Corrosive, Allergen
Triethylenetetramine	Allergen, Corrosive, Developmental, Irritant, Mutagen
2-(2-Aminoethylamino)ethanol	Irritant, Allergen
Diethylenetriamine	Allergen, Irritant, Eyes
2-Piperazin-1-ylethanol	Allergen, Central nervous system, Irritant
Carbon black	Respiratory, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Triethylenetetramine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Triethylenetetramine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethylpiperazine, Triethylenetetramine)
Hazard class or division:	8
Identification number:	UN 2735
Packing group:	II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA 313:	None above reporting de minimis
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class:	D.1.B, D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,2,4,5,7,8,10

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