

Revision Number: 002.1

Issue date: 12/30/2009

	1. PRODUCT AND COMPANY IDENTIFICATION			
Product name:MX HDRProduct type:Epoxy Ha	HTWC NA BULK ardener	IDH number: Item number: Region:	653353 231000 United St	ates
Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		Contact information: Telephone: 860.571.51 Emergency telephone: Internet: www.henkelna	00 860.571.510	
	2. HAZA	RDS IDENTIFICATION	[
	EMERGE	ENCY OVERVIEW HMIS:		
Physical state:PasColor:GreOdor:Slig		HIMIO. HEALTH: FLAMMABILITY PHYSICAL HAZ Personal Prote	ARD:	*3 1 0 See MSDS Section 8
DANGER: CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.				
Relevant routes of exposure:	Eye contact, Inge	estion, Inhalation, Skin contact		
Potential Health Effects				
Inhalation: Skin contact:	May be harmful if	tion. Severe respiratory tract irr absorbed through skin. Causes tion. Itching. Rash. Redness.		cause irritation to nose and throat. Tissue damage. Sensitization.
Eye contact:	Corrosive to eyes	Corrosive to eyes. Burns. Tissue damage. Tearing. Redness. Pain and discomfort. Blurred vision. Corneal edema may give appearance of "blue haze" or "fog" around lights.		
Ingestion:	cause stomach a	swallowed. May cause burns o che and vomiting. May cause ar r the lungs and result in pneumo	n aspiration h	throat if swallowed. Ingestion may azard if swallowed. Aspirated
Existing conditions aggravated exposure:	I by Skin disorders. Sl	Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.		
	This material is co 1910.1200).	onsidered hazardous by the OS	HA Hazard C	Communication Standard (29 CFR
	See Section 11 f	or additional toxicological inf	ormation.	

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Aluminum oxide, fibrous	1344-28-1	30 - 60	
Cycloaliphatic amine	Proprietary	10 - 30	
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	10 - 30	
Silicon carbide	409-21-2	10 - 30	
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5	
Substituted aminophenol	Proprietary	1 - 5	
Calcium carbonate	471-34-1	1 - 5	
Magnesium oxide	1309-48-4	1 - 5	
Silicon dioxide	7631-86-9	1 - 5	
Manganese dioxide	1313-13-9	1 - 5	

4 FIRST AID MEASURES

	4. FIRST AID MEASURES
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. If symptoms develop and persist, get medical attention.
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. Kee individual calm. Get immediate medical attention.
Notes to physician:	None
	5. FIRE FIGHTING MEASURES
Flash point:	121 °C (249.8 °F) Pensky Martens closed cup
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.
Universal fine on evenlesion benerales	In case of fire, keep containers cool with water spray. Closed containers ma
Unusual fire or explosion hazards:	rupture (due to build up of pressure) when exposed to extreme heat.

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 empty into drains / surface water / ground water.
Clean-up methods:	Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Avoid breathing dust. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed.

Storage:

Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Aluminum oxide, fibrous	1 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Cycloaliphatic amine	None	None	None	None
4,4'-Methylenebis(cyclohexylamine)	None	None	None	None
Silicon carbide	10 mg/m3 TWA Inhalable fraction. 3 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Substituted aminophenol	None	None	None	None
Calcium carbonate	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Magnesium oxide	10 mg/m3 TWA Inhalable fraction.	15 mg/m3 TWA Total particulate.	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Manganese dioxide	0.2 mg/m3 TWA (as Mn)	5 mg/m3 Ceiling (as Mn)	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Skin protection:

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

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

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

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Paste Grey Slight, Ammoniacal Not available Not available Not available Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Not available Not available 1.7911 > 1 121 °C (249.8 °F) Pensky Martens closed cup Not available Not available Slower than butyl acetate. Not available Not available Not available < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

10. STABILITY AND REACTIVITY

Stability:

Stable

Will not occur.

Hazardous reactions:

Hazardous decomposition products:

Incompatible materials:

Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen cyanide.

Strong Lewis acids. Strong mineral acids. Chlorinated rubber. Reaction with epoxy resins and/or isocyanates in large amounts or under uncontrolled conditions releases considerable heat and may release acrid fumes. Nitrites. Nitrates.

Conditions to avoid:

Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminum oxide, fibrous	No	No	No
Cycloaliphatic amine	No	No	No
4,4'-Methylenebis(cyclohexylamine)	No	No	No
Silicon carbide	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Substituted aminophenol	No	No	No
Calcium carbonate	No	No	No
Magnesium oxide	No	No	No
Silicon dioxide	No	No	No
Manganese dioxide	No	No	No

Hazardous components	Health Effects/Target Organs		
Aluminum oxide, fibrous	Irritant, Nuisance dust, Corrosive		
Cycloaliphatic amine	Brain, Corrosive, Irritant, Liver, Lung, Muscle, Skin		
4,4'-Methylenebis(cyclohexylamine)	Irritant, Allergen		
Silicon carbide	Nuisance dust		
Silica, amorphous, fumed, crystal-free	Nuisance dust		
Substituted aminophenol	Irritant, Allergen		
Calcium carbonate	Nuisance dust		
Magnesium oxide	Blood, Central nervous system, Immune system, Irritant		
Silicon dioxide	Nuisance dust		
Manganese dioxide Allergen, Immune system, Irritant, Lung, Nervous System, Respiratory			

12. ECOLOGICAL INFORMATION

Ecological information:

Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. Hazardous waste number: Not a RCRA hazardous waste. 14. TRANSPORT INFORMATION U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Amines, solid, corrosive, n.o.s. (aliphatic Amine) Hazard class or division: 8 Identification number: UN 3259 Packing group: ш International Air Transportation (ICAO/IATA) Proper shipping name: Amines, solid, corrosive, n.o.s. (aliphatic Amine) Hazard class or division: 8 Identification number: UN 3259 Packing group: ш Water Transportation (IMO/IMDG) Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (aliphatic Amine) Hazard class or division: 8 Identification number: UN 3259 Ш Packing group: **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 minimus CERCLA/SARA Section 302 EHS: None above reporting de minimus CERCLA/SARA Section 311/312: Immediate Health CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Manganese dioxide (CAS# 1313-13-9). California Proposition 65: This product contains a chemical known in the State of California to cause cancer. **Canada Regulatory Information** CEPA DSL/NDSL 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: New Material Safety Data Sheet format., This Material Safety Data Sheet contains changes from the previous version in Section(s): 3, 14, 15

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