

5121 San Fernando Road West
Los Angeles, CA 90039

8am to 5pm Phone: (818) 247-6210
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 4/2/01

Material Safety Data Sheet

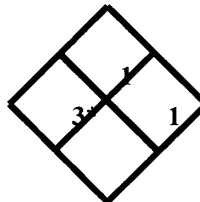
MSDS No: 60215

1. PRODUCT IDENTIFICATION

Trade Name: HARDENER HW 8772

Material Code: FPC0426

Chemical Family: Filled Aliphatic Amine



NFPA RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	1317-65-3 Concentration	LIMESTONE 0.00 - 10.00 % by wt	10 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	1333-86-4 Concentration	Carbon Black 0.10 - 1.00 % by wt	3.5 mg/m3	NE	3.5 mg/m3	NE	NE	Yes	NR	NR
*	14808-60-7 Concentration	Quartz (SiO2) 10.00 - 30.00 % by wt	.05 mg/m3	NE	mg/m3	NE	NE	Yes	Yes	Yes
*	21645-51-2 Concentration	Aluminum hydroxide (Al(OH)3) 60.00 - 90.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	25620-58-0 Concentration	1,6-Hexanediamine, trimethyl- 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	26950-63-0 Concentration	1,2-Ethanediamine, N,N'-bis(2- aminoethyl)-, polymer with methyloxirane 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	80-05-7 Concentration	Phenol, 4,4'-(1- methylethylidene)bis- 0.00 - 10.00 % by wt	NE	NE	NE	NE	TLV 5 mg/m3	NR	NR	NR

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NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: CORROSIVE! Causes severe eye and skin burns and possible allergic skin reaction. Vapor irritating to eyes, skin and nasal mucous membranes. Harmful if swallowed.

Primary Route(s) of Entry: Dermal, inhalation.

Potential Health Effects: Vapor or mist can cause severe irritation to the nose and throat. Substance can be corrosive to eyes and causes permanent, irreversible eye injury. Substance can be corrosive to skin and cause chemical burns. Substance will cause burning and swelling of mouth, throat, and abdomen on ingestion.

Carcinogenicity (NTP, IARC, OSHA): Contains Silica, Quartz considered to be carcinogenic by NTP, IARC, or OSHA. This product contains Carbon Black which is a suspected carcinogen by NTP, IARC and/or OSHA.

Chronic: Prolonged or repeated exposure can cause allergic reaction. Also, overexposure to dust may cause delayed and serious injury.

4. FIRST AID MEASURES

Ingestion: If swallowed dilute by giving two (2) glasses water to drink. See a physician. Never give anything by mouth to an unconscious person.

Skin: For skin contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

Eyes: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

Note to Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Medical Conditions Aggravated by Exposure: Allergy, eczema, eye or respiratory conditions.

5. FIRE FIGHTING MEASURES

Flash Point: > 96°C (> 205 °F)
Flash Point Method Used: Closed Cup

Fire Fighting Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

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Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazards: Keep fire-exposed containers cool with water. Do NOT use a solid stream of water. A solid stream of water can spread fire.

Hazardous Combustion Products: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate the spill area. Wear full protective equipment. Dike and absorb spill with inert material (sand, earth, etc.). Transfer to containers suitable for disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before reuse. Keep spills and runoffs out of municipal sewers and open bodies of water. If spilled on a porous surface, ground contamination must be considered.

7. HANDLING AND STORAGE

Signal Word: CORROSIVE!

Precautions: Do NOT get in eyes, on skin, or clothing. Wear chemical splash goggles and impervious gloves when handling. Wash skin and clothing thoroughly after handling. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep containers closed when not in use. Do NOT take internally.

Other Handling Information: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Do not inhale mists. Use with adequate ventilation. For industrial use only.

Storage Information: STORAGE TEMPERATURE: 35°C, maximum. Store indoors in a cool, dry area with adequate ventilation away from excessive heat, sources of ignition, and reactive materials. Do NOT store near food or feed. CORROSIVE to copper and brass on long-term storage.

Additional Information: PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THE PRODUCT. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Eye bath and safety shower should be available. Wear protective clothing.

Exposure Guidelines: Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Wear respirator (MSHA/NIOSH or approved equivalent) suitable for concentrations and type of air contaminants encountered.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: Use good general mechanical ventilation and local exhaust.

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Emergency Response Protection: Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous Liquid
Color:	Black
Odor:	Amine
Solubility in Water:	Slight
Viscosity:	~ 61000 cps at 25°C (77 °F)
Vapor Pressure:	< 0.1 mm Hg at 20°C (68 °F)
Specific Gravity:	1.73 (Water =1)
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1 (Air = 1)
VOC:	18 g/L (This is an estimated value.)

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures and epoxy resins in bulk

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents and acids.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, ammonia, oxides of nitrogen

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): For Trimethyl-1, 6-hexanediamine: 910 mg/Kg (rat)

Acute Dermal Toxicity (LD50): Not available.

Inhalation Toxicity (LC50): Not available

Sensitization: Skin sensitizer.

Carcinogenicity:

Crystalline Silica:

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (Volume 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals, and there is limited evidence of the carcinogenicity of crystalline silica to humans. IARC Class 2A.

Carbon black:

Based upon an IARC conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans" (group 2B). Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

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Skin Irritation: Corrosive. Causes burns.**Eye Irritation:** Corrosive. Causes burns.**12. ECOLOGICAL INFORMATION****Biodegradability:** No information available.**Ecotoxicity:** No information available.**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Incinerate liquid; landfill or incinerate contaminated diking material in accordance with local, state, and federal regulations.**14. TRANSPORT INFORMATION****DOT: Non-Bulk**

Proper Shipping Name:	Trimethylhexamethylenediamine Mixture
Hazard Class:	8
ID Number:	UN 2327
Packing Group:	PG III
Label:	Corrosive

IATA: Non-Bulk

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15. REGULATORY INFORMATION**US Federal Regulations:****Occupational Safety and Health Act (OSHA):** This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).**Resource Conservation and Recovery Act (RCRA):** This product is not considered to be a hazardous waste under RCRA (40 CFR 261).**SARA Title III: Section 304 - CERCLA:** This product contains no chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List).**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** Immediate (acute) health hazard.
Delayed (chronic) health hazard.

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SARA Title III: Section 313 Toxic Chemical List (TCL): This product is (or contains) a toxic chemical for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).

30.00 - 60.00 % by wt; 80-05-7; Phenol, 4,4'-(1-methylethylidene)bis-

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product contains the following chemicals that are subject to Section 12(b) export notification:

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-
CASRN: 80-05-7

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemicals which are listed on the California list of Known Carcinogens and Reproductive Toxins.

Chemical Name: Quartz (SiO₂)
CASRN: 14808-60-7
Common Name: Crystalline Silica (Quartz)
Percent in Composition: 11.30
Comment: Warning! This chemical is known to the state of California to cause Cancer.

Chemical Name: Formaldehyde
CASRN: 50-00-0
Percent in Composition: 0.0011
Comment: Warning! This chemical is known to the state of California to cause Cancer.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name : Aluminum hydroxide (Al(OH)₃)
CASRN : 21645-51-2
Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : 1,6-Hexanediamine, trimethyl-
CASRN : 25620-58-0
Common Name : Trimethylhexamethylenediamine
Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : Quartz (SiO₂)
CASRN : 14808-60-7
Common Name : Crystalline Silica (Quartz)
Comment : Hazardous Substance.

Chemical Name : Phenol, 4,4'-(1-methylethylidene)bis-
CASRN : 80-05-7
Common Name : Bisphenol A
Comment : Hazardous Substance and Environmental Hazard.

Chemical Name : LIMESTONE
CASRN : 1317-65-3

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Comment : Hazardous Substance.

16. OTHER INFORMATION

MSDS No: 60215
Reason Issued: Reissue for Netscape access
Approved By: Matthew Austin
Approved Date: 12/22/98
Supersedes Date: 12/17/98

Other Information: L/M Codes: BH/Si/CA1 - BL0597 (B12120031)
Material Code: FPC0426

Revision Summary: The following sections have been modified since the last effective date: 1

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