

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: 4/12/01

Material Safety Data Sheet

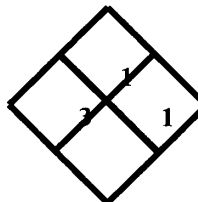
MSDS No: 60190

1. PRODUCT IDENTIFICATION

Trade Name: HARDENER HW 8771

Material Code: FPC0418

Chemical Family: Filled Modified Aromatic Amine



NFPA RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				MFR.	CARCINOGEN STATUS		
			ACGIH		OSHA			IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	100-51-6 Concentration	Benzenemethanol 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	0.00 - 10.00 % by wt	5 ppm	NE	5 ppm	NE	NE	NR	NR	NR
	Confidential Concentration	Aromatic Amine 0.00 - 10.00 % by wt	NE	.1 mg/m3	NE	NE	NE	NR	NR	NR
	Confidential Concentration	metal hydroxide 30.00 - 60.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Modified aromatic amine 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Modified cycloaliphatic amine 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Polyamide 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

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

3. HAZARDS IDENTIFICATION

Emergency Overview: Warning! ! Causes severe eye irritation and possible eye damage. Causes severe skin irritation and possible allergic skin reaction. Harmful if inhaled. Harmful if swallowed.

Effective Date: 4/12/01

Primary Route(s) of Entry: Dermal, inhalation.**Potential Health Effects:** Vapor or mists can irritate the nose and throat. Severely irritating to eyes with possible permanent injury. Severely irritating and harmful if absorbed through skin. Substance will cause burning and severe swelling of the mouth, throat and abdomen.**Chronic:** Prolonged or repeated exposure can cause allergic reaction.

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, flush eyes with plenty of water for several minutes. Get medical attention if irritation occurs.**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: > 97°C (> 207 °F)
Flash Point Method Used: Closed Cup**Fire Fighting Extinguishing Media:** Carbon dioxide, foam, dry chemical, water spray.**Fire Fighting Equipment:** Cool exposed containers with water spray. Use self contained breathing apparatus.**Fire and Explosion Hazards:** 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

Effective Date: 4/12/01

Signal Word: Warning !**Precautions:** Do not get in eyes, on skin, or on clothing . Wear chemical splash goggles and impervious gloves when handling. Wash 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.**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:** Good general mechanical ventilation and local exhaust.**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:	Opaque liquid
Color:	Beige
Odor:	Slight Amine
Solubility in Water:	Slight
Viscosity:	> 15600 cps at 25°C (77 °F)
Vapor Pressure:	< 1 mm Hg at 20°C (68 °F)
Specific Gravity:	1.47
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1
VOC:	165 g/L (This is an estimated value.)

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures and epoxy resins in bulk

Effective Date: 4/12/01

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents, acids, and bases

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

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: Potential skin and respiratory sensitizer.

Skin Irritation: Severe skin irritant.

Eye Irritation: Severe irritation.

12. ECOLOGICAL INFORMATION

Biodegradability: No information available.

Ecotoxicity: No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in approved equipment. Landfill or incinerate contaminated material in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name: Not Regulated

IATA:

Proper Shipping Name: Not Regulated

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a hazardous waste under RCRA (40 CFR 261).

Effective Date: 4/12/01

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product contains the following chemicals regulated under Section 302 as extremely hazardous substances:

Chemical Name: Phenol
CASRN: 108-95-2
Percent in Composition: 0.00 - 10.00 % by wt

SARA Title III: Section 304 - CERCLA: This product contains the following chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: Phenol
CASRN: 108-95-2
Percent in Composition: 0.00 - 10.00 % by wt
Component RQ: 1000

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate (acute) health hazard

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

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 which are subject to Section 12(b) export notification:

Chemical Name : 2-Propanol
CASRN : 67-63-0

State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

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 : Benzenemethanol
CASRN : 100-51-6
Common Name : Benzyl Alcohol
Comment : Hazardous Substance.

Chemical Name : Polyamide
CASRN : REF00006025
Common Name : Polyamide
Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : Formaldehyde, polymer with 1,3-Benzenedimethanamine and phenol
CASRN : 57214-10-5
Common Name : Modified aromatic amine

Effective Date: 4/12/01

Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : Modified cycloaliphatic amine
CASRN : REF00006024
Common Name : Modified cycloaliphatic amine
Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : Phenol
CASRN : 108-95-2
Comment : Hazardous Substance and Environmental Hazard.

Chemical Name : 1,3-Benzenedimethanamine
CASRN : 1477-55-0
Common Name : m-Xylylenediamine
Comment : Hazardous Substance.

16. OTHER INFORMATION

MSDS No:	60190
Reason Issued:	New formatt
Approved By:	Matthew Austin
Title:	EH&S Chemist
Approved Date:	03/25/98

Other Information: L/M Codes: JH | JL0597 (J10020030)
Material Code: FPC0418

Revision Summary:

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.