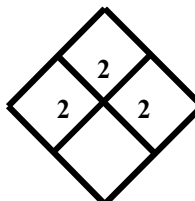


1. PRODUCT IDENTIFICATION

Trade Name: Hardener 77/1073 White

Material Code: FPC7298

Chemical Family: Hardener in solution



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				
*	13463-67-7	Titanium dioxide Common Name: Concentration 0.00 - 10.00 % by wt	10 mg/m3	NE	15 mg/m3	NE	NE	NR	NR	NR
	Confidential Concentration	Acrylate esters 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	metal hydroxide 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	34590-94-8	Propanol, 1(or 2)-(2-methoxymethylethoxy)- Dipropylene glycol monomethyl ether Common Name: Concentration 10.00 - 30.00 % by wt	100 ppm	150 ppm	100 ppm	150 ppm	NE	NR	NR	NR
	Confidential Concentration	Acrylate esters 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Inorganic oxide 0.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Substituted Epoxy Resin 30.00 - 60.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Heterocyclic amine 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!! COMBUSTIBLE. Causes severe eye irritation. Causes skin irritation and possible allergic reaction. Harmful if inhaled. Harmful if swallowed.

Effective Date: 8/14/02

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

Potential Health Effects: May cause severe eye irritation. Ingestion may cause gastrointestinal irritation or ulceration and burns of mouth and throat. Inhalation may cause irritation to upper respiratory tract. Prolonged or repeated exposure may cause skin irritation.

Carcinogenicity (NTP, IARC, OSHA): The chemicals listed in Section 2 are not considered to be carcinogenic by NTP, IARC, or OSHA.

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 with large amounts of running water, and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

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: Eczema, allergy, skin and/or eye condition, and/or respiratory disease(s)

5. FIRE FIGHTING MEASURES

Flash Point: > 70°C (> 158 °F) (estimated)

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

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

Effective Date: 8/14/02

Accidental Release Measures: Evacuate the spill area. Wear protective clothing. Dike and absorb spill on inert material (sand, earth, etc.). Transfer to containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. If spilled on a porous surface, ground contamination must be considered.

7. HANDLING AND STORAGE

Signal Word: WARNING!

Precautions: Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. 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:	Paste
Color:	White
Odor:	Slight solvent odor
Viscosity:	15000 - 40000 cps at 25°C (77 °F)
Vapor Pressure:	< 1 mm Hg at 20°C (68 °F)
Specific Gravity:	1.05 (Water = 1)
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1 (Air = 1)

Effective Date: 8/14/02

10. STABILITY AND REACTIVITY**Stability:** Stable under normal conditions.**Incompatibility:** Strong oxidizing agents, acids, and bases**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Sensitization:** May cause allergic skin reaction and sensitization.**Skin Irritation:** Moderate irritant.**Eye Irritation:** Moderate - severe.**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:** Not Regulated**IATA: Non-Bulk****Proper Shipping Name:** Not Regulated**IMDG:****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):** Not a hazardous waste under RCRA (40 CFR 261).

Effective Date: 8/14/02

SARA Title III: Section 304 - CERCLA: Not listed.

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 any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

International Regulations:

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: This product contains one or more chemicals currently not on the Canadian Domestic Substance List.

European Inventory Status (EINECS): This product contains only chemicals that are currently listed on the European Inventory of Existing Commercial Chemical Substances (EINECS).

Japanese Inventory Status: This product contains only chemicals currently listed on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

State Regulations:

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

Chemical Name: inhibitor (HQ, MEHQ, etc)

Common Name: inhibitor (HQ, MEHQ, etc)

CAS Number: LA101017-01

Percent in Composition: 0.01 - 0.1 % by wt

Comment: Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Chemical Name: Substituted Epoxy Resin

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Acrylate esters

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Propanol, 1(or 2)-(2-methoxymethylethoxy)-

Common Name: Dipropylene glycol monomethyl ether

CAS Number: 34590-94-8

Comment: Hazardous Substance

Effective Date: 8/14/02

Chemical Name: Titanium dioxide
Common Name: Titanium dioxide
CAS Number: 13463-67-7
Comment: Hazardous Substance

Chemical Name: Acrylate esters
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Heterocyclic amine
CAS Number: Confidential
Comment: Environmental Hazardous Substance

Chemical Name: Inorganic oxide
CAS Number: Confidential
Comment: Hazardous Substance

16. OTHER INFORMATION

MSDS No:	61468
Reason Issued:	Update
Prepared By:	Matthew Austin
Approved By:	Matthew Austin
Title:	EH&S Chemist
Approved Date:	10/02/00
Supersedes Date:	12/07/01

Other Information: L/M Codes: - CA3 (W10020033) [W14]
Material Code: FPC7298

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