Material Safety Data Sheet

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MA 300 ADHESIVE

This product appears in the following stock number(s): 30000 30500 30600 IT405 IT407 IT410

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename:

MA 300 ADHESIVE

General use:

Adhesive

Chemical family:

Acrylate

MANUFACTURER

ITW Plexus 30 Endicott St. Danvers, MA 01923

EMERGENCY INFORMATION

Emergency telephone number

(CHEMTREC):

(800) 424-9300

Other Calls:

(978) 777-1100

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS

Exposure limits

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
p(BD/MMA/STY)		TSRN 800941- 5008P	10 - 20	n/e	n/e	n/e
Carbon tetrachloride	CCL4	56235	< 1	5 ppm	10 ppm	2 ppm (Canada)
Chlorosulfonated polyethylene		68037398	30 - 40	n/e	n/e	n/e
Methacrylic acid	MAA	79414	5 - 15	20 ppm	20 ppm	4 ppm (Manufacturer)
Methyl Methacrylate Monomer	MMA	80626	30 - 60	50 ppm	100 ppm	100 ppm (Canada)

[&]quot;TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit."n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Off-white paste with varied fragrant odor.

WARNING! Flammable. Eye, skin and respiratory irritant. Skin sensitizer. Harmful if inhaled or absorbed through skin.

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Potential health effects	4	90 i, 21 th 10 ii ii ii ii ii	and a class would be a	
Primary routes o	of exposure: Skin co	ntact Skin absorption	on Eye contact	nhalation Ingestion
Symptoms of acute over	erexposure:			
Skin: May cause irritation Eyes: Liquid and vapors Inhalation: High concentration is unconsciousness.		on. May cause cornea	damage.	hetic effects,
Ingestion:	ourning sensation of the r	mouth, throat and gastr	ointestinal tract and abdo	ominal pain.
Effects of chronic over				
Prolonged exposure a carcinogenic or mu	may lead to kidney, lung tagenic hazard. May cau of the skin. Repeated or	use dermatitis (itching,	redness, rashes, hives, b	Not believed to represent ourning, swelling) and/or ma. May effect the
Carcinogenicity OSHA	regulated: No	ACGIH: No	National Toxicolog	y Program: No
Intern	ational Agency for Resea	rch on Cancer:No		
Preexisting eye, lung Other effects: MMA: Developmental impair human olfactor	toxicity observed in anir	nal tests, but only at le	vels toxic to the mother.	MMA is reported to
4. FIRST AID MEAS	URES	1-	The second secon	A TOWN MAN OF START
First aid for eyes:	water for at least 15 minu	utes while gently holdir	g eyelids open. Get imn	nediate medical
	contaminated clothing an . Consult a physician if i		Flush skin with water.	Wash thoroughly with
First aid for inhalation: Remove patient to fre	sh air. Administer oxyge	en if breathing is difficul	t. Get medical attention	if symptoms persist.
First aid for ingestion: Do NOT induce vomit	ing. Give two glasses of	water to dilute if patier	nt is conscious. Get med	dical attention.
5. FIRE FIGHTING N		Garage Manada gayates di a seriese series a di Sirili di di		ghangg are did discovered as the control of
Vapor forms explosive		man and the second seco	makeneda	
Extinguishing media:	Corbon dissid	Day of anti-		Alaskata
Water	Carbon dioxide	Dry chemical	Foam	Alcohol foam

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Flash Point (°F): 50

Method: TCC

Explosive limits in air (percent) -- Lower: 2.1

Upper: 12.5

Special firefighting procedures:

Keep personnel removed and upwind from fire. Wear self contained breathing apparatus and full protective equipment. Cool tank with water spray. Fight fire from a distance as the heat may rupture the tanks.

Unusual fire and explosion hazards:

Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back. Burning liquid may float on water. Personnel in vicinity and downwind should be evacuated.

Hazardous products of combustion:

Carbon monoxide, carbon dioxide and smoke.

6. ACCIDENTAL RELEASE MEASURES

Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

Cleanup

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste). Add inhibitor to prevent polymerization.

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

7. HANDLING AND STORAGE

Handling precautions:

Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.

Air dry and then launder contaminated clothing and protective gear before reuse. Close container after each use. Ground/ bond container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools.

Storage:

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers, inhibitor requires oxygen contact to function. Vapors are uninhibited and may form polymers in vents or flame arrestors, resulting in blockage of vents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation:

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

Other engineering controls:

Keep container tightly closed. Observe label precautions. Have emergency eyewash and safety shower present.

Personal protective equipment

Eye and face protection:

Wear safety glasses. Wear coverall chemical splash goggles and face shield when eye and face contact is possible.

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Skin protection:

Chemical-resistant rubber (e.g. butyl rubber) gloves and other protective gear as needed to prevent skin contact. The breakthrough time of the selected glove(s) must be greater than the intended use period.

Respiratory protection:

A NIOSH/MSHA air purifying respirator with an organic vapor cartridge may be permissible as exposure levels dictate. However use a positive pressure air supplied respirator if there is any potential for uncontrolled release, or unknown

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:

1.0

Boiling point (°F):

213

Melting point (°F):

Vapor density (air = 1):

> 1

Vapor pressure (mmHg):

28 mm Hg at 68 °F

Evaporation rate (butyl acetate = 1): 3

VOC (grams/liter):

< 50 mixed

Solubility in water:

Percent volatile by volume: n/d

pH (5% solution or slurry in water): 3.0-3.5

Percent solids by weight:

n/d

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization may occur.

Conditions to avoid:

Unstable with heat, direct sunlight, inert gas blanketing, ultraviolet radiation.

Incompatible materials:

Incompatible with strong oxidizing agents and reducing agents, acids and bases. Material is a strong solvent and can soften paint and rubber.

Hazardous products of decomposition:

Carbon monoxide, carbon dioxide and smoke.

Conditions under which hazardous polymerization may occur:

Excessive heat, storage in the absence of inhibitor and inadvertant addition of catalyst.

11. TOXICOLOGICAL INFORMATION

Acute oral effects:

LD50 (rat): > 2000 mg/kg estimate

Toxicity of MMA exposed near LD50 include blood in the urine and liver changes.

Acute dermal effects:

LD50 (rabbit): > 1700 mg/kg estimate

Dermatitis.

Acute inhalation effects: LC50 (rat): No data available.

Exposure: 4 hours.

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestional irritation, lung damage, nervous system

Eye irritation:

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Not available.

Subchronic effects:

Inhalation: Repeated exposure of MMA at 5-100 times the TLV include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Ingestion: Liver and kidney affects with altered function in both organs. Skin permeation may occur.

Carcinogenicity, teratogenicity, and mutagenicity:

Possible reproductive hazard based on animal data. MMA did not cause birth defects, malformations or fetal toxicity in pregnant rats inhaling concentrations up to 2028 ppm.

Other chronic effects:

Inhalation: long term exposure of MMA caused inflammation of the nasal cavity, changes in nasal sensory cells and decreased body weight. Ingestion: Can cause decreased body weight, and increased kidney weight

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
p(BD/MMA/STY)	n/d	n/d	n/d
Carbon tetrachloride	2350 mg/kg	>20gm/kg	8000ppm
Chlorosulfonated polyethylene	n/d	n/d	n/d
Methacrylic acid	1060 mg/kg	500 mg/kg	>1300 ppm
Methyl Methacrylate Monomer	7872 mg/kg	> 5,000 mg/kg	7093 ppm

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION

Ecotoxicity:

MMA has: estimate of 96 hour median threshold limit: 100-1,000 ppm; 96 hour LC50, fathead minnow: 150 ppm; 96 hour LC50, bluegill sunfish: 232 ppm. MAA has: LC50 = 85mg/l, 96 hr, Rainbow trout (slightly toxic); EC50 > 130

Mobility and persistence:

MMA is partially biodegradable in water. BOD-5 day: 0.14 g/g - 0.90 g/g; THOD: 1.92 g/g. MAA readily biodegraded

Environmental fate:

MMA produces high tonnage material in wholly contained systems. Liquid with moderate mobility. Sparingly soluble in water. High potential for bioaccumulation. Low mobility in soil.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:

If this product becomes a waste, it would be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations. Do not dispose of in a landfill. Incineration is the preferred method of disposal. Empty containers still contain hazardous product residue (vapors and/or liquid). Follow all MSDS and label warnings even after container is emptied. Residual vapors in empty containers may explode on ignition - DO NOT cut, drill, grind, or weld on or near container.

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14. TRANSPORT INFORMATION

Proper shipping name:

Adhesives *

Technical name:

N/A

Hazard class:

3

UN number:

1133

Packing group:

II

Emergency Response Guide no.:

128

IMDG page number:

Other:

Containers < 30 liters are PG III

15. REGULATORY INFORMATION

U.S. Federal Regulations

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste: D001, D019

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
p(BD/MMA/STY)	No	No	0.0	Not required
Carbon tetrachloride	No	Yes	10.0	Not required
Chlorosulfonated polyethylene	No	No	0.0	Not required
Methacrylic acid	No	No	0.0	Not required
Methyl Methacrylate Monomer	No	Yes	1000.0	Required

^{*}Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Fire hazard --

Reactivity hazard -

Canadian regulations

WHMIS hazard class(es): B2; D2B

^{*}Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

^{**}Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of

Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

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All components of this product are on the Domestic Substances List.

Regulatory notes:

In normal use, the methyl methacrylate in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is negligible (less than 5%). Actual emissions are a function of substrate and process and should be considered on an individual basis.

16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health 2*	Flammability 3	Reactivity 2

The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.