

ITW Plexus

Material Safety Data Sheet

Part No.: 0905

Page 1

MA 300 / MA 310 ACTIVATOR

This product appears in the following stock number(s):
30000 30500 30600 31000 31500 31600 IT406 IT408

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: MA 300 / MA 310 ACTIVATOR
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

Table with 7 columns: Constituent, Abbr., CAS No., Weight percent, ACGIH TLV, OSHA PEL, Other Limits. Rows include p(BD/MMA/STY), 3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine, and Methyl Methacrylate Monomer.

"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: Paste with varied fragrant odor.

WARNING! Flammable. Eye, skin and respiratory irritant. Skin sensitizer. Harmful if inhaled or absorbed through skin. Chronic overexposure may cause liver and kidney effects.

Potential health effects

Primary routes of exposure: [X] Skin contact [X] Skin absorption [X] Eye contact [X] Inhalation [] Ingestion

Symptoms of acute overexposure:

Skin: May cause irritation and sensitization. MMA may be absorbed through the skin.

Eyes: Liquid and vapors causes moderate irritation (burning sensation, tearing, redness, swelling). May cause corneal

ITW Plexus**Material Safety Data Sheet**

Part No.: 0905

Page2

damage.

Inhalation:

High concentration is irritant to respiratory tract and may cause dizziness, headache, and anaesthetic effects.

Ingestion:

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Effects of chronic overexposure:

Prolonged exposure may lead to kidney, lung, and liver damage; not likely to cause cancer. Not believed to represent a carcinogenic or mutagenic hazard. May cause dermatitis (itching, redness, rashes, hives, burning, swelling) and/or numbness/prickling of the skin. Repeated or prolonged inhalation exposure may cause asthma. May effect the

Carcinogenicity -- OSHA regulated: No**ACGIH: No****National Toxicology Program: No****International Agency for Research on Cancer: No****Medical conditions which may be aggravated by exposure:**

Preexisting eye and skin disorders and diseases of the lung.

Other effects:

MMA: Developmental toxicity observed in animal tests, but only at levels toxic to the mother. MMA is reported to impair human olfactory function. Overexposure to pyridine and some of its derivatives may include weakness,

4. FIRST AID MEASURES**First aid for eyes:**

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

First aid for skin:

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with warm soap and water. Consult a physician if irritation develops.

First aid for inhalation:

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

First aid for ingestion:

Do NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention.

5. FIRE FIGHTING MEASURES**General fire and explosion**

Vapor forms explosive mixture with air.

Extinguishing media: Water Carbon dioxide Dry chemical Foam Alcohol foam

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

Hazardous products of combustion:

Toxic vapors may be released upon thermal decomposition (cyanide, nitrogen oxides).

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 eye wash 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.

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 exposure levels, or when airborne concentrations exceed 10 times the TLV or PEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	0.96	Boiling point (°F):	213
Melting point (°F):	n/d	Vapor density (air = 1):	3.5
Vapor pressure (mmHg):	28 mm Hg at 68 °F	Evaporation rate (butyl acetate = 1):	3
VOC (grams/liter):	< 50 mixed	Solubility in water:	n/d
Percent volatile by volume:	n/d	pH (5% solution or slurry in water):	4.5-5.5
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, nitrogen oxides, cyanide 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): Not available.

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

Acute dermal effects: LD50 (rabbit): Not available.

Dermatitis.

Acute inhalation effects: LC50 (rat): Not available.

Exposure: 4 hours.

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestinal irritation, lung damage, nervous system effects and blood in urine.

Eye irritation:

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
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	> 500 mg/kg	> 1000 mg/kg	n/d
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

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

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.

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: N/A
 Other: Containers < 30 liters are PG III

*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.

15. REGULATORY INFORMATION**U.S. Federal Regulations****TSCA**

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

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
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	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.

**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.

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 --

Canadian regulations

WHMIS hazard class(es) : B2; D2B

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,

ITW Plexus

Material Safety Data Sheet

Part No.: 0905

Page 7

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
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