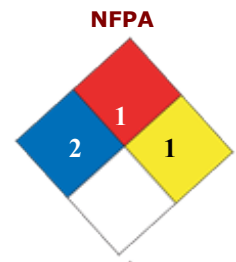




SECTION 1 - IDENTIFICATION

Product Name: M Clear
Product Code: 177577
MSDS Manufacturer Number: 177577
Product Use/Restriction: Printing Plate
Manufacturer Name: MacDermid Printing Solutions
Address: 5210 Phillip Lee Drive
Atlanta, GA 30336.
USA
General Phone Number: 1-800-348-7201
Emergency Phone Number: 1-800-424-9300
MSDS Creation Date: January 14, 2013
MSDS Revision Date: January 14, 2013
MSDS Format: In accordance to GHS
GHS Class: Eye Irritant, Category 2
Skin Irritant, Category 2
Hazardous to the aquatic environment



HMIS

Health Hazard	2
Fire Hazard	1
Reactivity	1
Personal Protection	X

SECTION 2 - HAZARD(S) IDENTIFICATION

GHS Pictograms:



GHS Class: Eye Irritant, Category 2
Skin Irritant, Category 2
Hazardous to the aquatic environment

Hazard Statements: Causes eye irritation
Causes skin irritation
Toxic to aquatic life with long lasting effects

Precautionary Statements:	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.
Emergency Overview:	WARNING! Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	Causes eye irritation Causes skin irritation May cause respiratory irritation
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Polyurethane methacrylate oligomer	Proprietary	60-100 by weight	
Methacrylic esters	Proprietary	10 - 30 by weight	

Note: The specific chemical identify is being withheld as a Trade Secret. In the event of a medical emergency, specific chemical composition will be provided upon request by a physician or other health related personnel.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	Rinse mouth with water. Give water to drink. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	First Responders should provide for their own safety prior to rendering assistance.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	>200°F (>93.3°C)
Flash Point Method:	Pensky-Marten Closed Cup (PMCC)
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO ₂), dry chemical, foam, or water when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. When heated to decomposition, toxic fumes are emitted

NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	1
NFPA Reactivity:	1

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Evacuate and ventilate area. Eliminate ignition sources. Use caution - spills cause floors to become slippery. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Do not use sawdust or other organic materials. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with water to remove trace residue to a chemical drain. Avoid discharge to sewers or natural waters.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Materials should be stored in the properly sealed original container. Store in a cool, dry, well ventilated area away from direct heat or sunlight, sources of UV radiation, peroxides, or free radicals. Hazardous polymerization may occur at elevated temperatures.

Work Practices:	Handle in accordance with good industrial hygiene and safety practices.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Hand Protection Description:	PVC, rubber, or neoprene gloves.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

PPE Pictograms:



EXPOSURE GUIDELINES

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid.
Color:	Clear
Odor:	Mild/slight
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.05
Solubility:	Insoluble in water.
Vapor Pressure:	negligible @ 20° C

Percent Volatile: Negligible at 20 C
pH: Not applicable.
Flash Point: >200°F (>93.3°C)
Flash Point Method: Pensky-Marten Closed Cup (PMCC)

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Stable under recommended handling and storage conditions.
Hazardous Polymerization: Polymerization may occur at elevated temperatures.
Conditions to Avoid: Direct heat or sunlight, sources of UV radiation, peroxides or free radicals, and elevated temperatures.
Incompatible Materials: Strong sunlight, ultraviolet light, peroxides, and free radicals.
Special Decomposition Products: Thermal decomposition can lead to release irritant fumes and toxic gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Eye: no data available.
Skin: no data available.
Inhalation: no data available.
Ingestion: no data available.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with Local, State, Federal and Provincial regulations.
RCRA Number: Not determined.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.
DOT Hazard Class: Non regulated.

IATA Shipping Name: Non regulated.

IMDG UN Number : Non regulated.

SECTION 15 - REGULATORY INFORMATION

SARA: This product does not contain any chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).

Canada WHMIS: Xi - Irritant

EU Class: Irritant.
In accordance to Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures

Risk Phrases: R36/37/38 - Irritating to eyes, respiratory system and skin.

Safety Phrase: S23 - Do not breathe gas/fumes/vapour/spray.
S37 - Wear suitable gloves.

SECTION 16 - ADDITIONAL INFORMATION

Label Hazard Warning: Causes eye irritation
Causes skin irritation
Toxic to aquatic life with long lasting effects

Label Precautions: Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

HMIS Health Hazard: 2

HMIS Fire Hazard: 1

HMIS Reactivity: 1

HMIS Personal Protection: X

MSDS Creation Date: January 14, 2013

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