

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Glacial Methacrylic Acid

PRODUCT NAME: Primer Pen

TRADE NAME/PRODUCT CODE: 0000

PRODUCT USE: Organic Process Chemical

MANUFACTURER: Haigh Industries Inc.,
ADDRESS: #5 – 8118 North Fraser Way,
 Burnaby, B.C.
 Canada, V5J 0E5

24 HR. EMERGENCY TELEPHONE:

PREPARATION/UPDATE DATE: CHEMTEL: 1-800-255-3924

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 7/22/20

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture
 Hazard Class - *Physical, Health, Environmental*
 Flammable Liquid
 Oral Toxicity
 Dermal Toxicity
 Skin Corrosion/Irritation
 Eye Damage/Irritation

Category
 4
 Acute Tox. 4
 Acute Tox. 4
 1A
 1

Label Elements - Pictograms, Signal Word, Hazard Statements, Precautionary Statements, & Supplemental Information



Signal Word
 Danger

Hazards Statements

H227 Combustible liquid
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H314 Causes severe skin burns and eye damage
 H318 Causes serious eye damage

Precautionary Statements - Prevention, Response & Disposal

P210 Keep away from heat/sparks/open flames/hot surfaces
 – No smoking
 P235 Keep cool
 P240 Ground and bond container and receiving equipment
 P260 Do not breathe dust/fume/gas/mist/vapours/spray
 P264 Wash hands and exposed skin thoroughly after handling
 P270 Do not eat, drink or smoke when using this product
 P280 Wear protective gloves/protective clothing/eye protection/face protection

P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment (see ... on this label)
P322	Specific measures (see ... on this label)
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
+P331	
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
+P353	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
+P338	
P370+P378	In case of fire: Use CO2 for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to an authorized disposal facility

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Cas No.	Weight-%	GHS Ratings
Methacrylic Acid	79-41-4	90 — 100	Oral Toxicity 4 Dermal Toxicity 4 Skin Corrosion/Irritation 1A (H314)

*Component names may have been omitted to protect confidential business information (CBI) in compliance with OSHA GHS HCS §1910.1200 Appendix E. A full disclosure safety data sheet can be supplied in emergency and non-emergency situations upon written request.

SECTION 4 - FIRST AID MEASURES

General Advice

Provide the SDS to medical personnel for treatment.

Inhalation:

Remove victim to fresh air. Seek immediate medical attention.

Eye Contact:

If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

Skin Contact:

Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

Clothing:

Remove contaminated clothing, wash thoroughly before reuse.

Ingestion:

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Chemical (alcohol-resistant) foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

Water spray or water stream may not be effective.

Specific Hazards Arising from the Chemical

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is a flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.

Hazardous Combustion Products

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

Special Fire Fighting Procedures:

Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter fire area without proper protection. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental Precautions

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. May contaminate water supplies/be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply.

Methods for Cleaning Up

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap.

SECTION 7- HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Keep away from heat, sparks, and flame. Keep container closed after each use. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on label. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

Incompatible Materials

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Methacrylic Acid 79-41-4		20 ppm TWA	NIOSH: 20 ppm TWA; 70 mg/m ³ TWA

Engineering Controls

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personnel Protective Equipment (PPE)

Respiratory Protection

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

Eye/Face Protection

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

Skin and Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact:

Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min

Splash contact:

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 120 min

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<p>Appearance: Clear</p> <p>Odor: Pungent</p> <p>Flammable Limit (Air Volume%, 0% Lower/Upper)</p> <p>Evaporation Rate</p> <p>Specific Gravity 0</p>	<p>Physical State: Liquid</p> <p>Flash Point: 151 F, 66 C</p> <p>Autoignition Temperature: 68°C</p> <p>Boiling Range (low - high) 150°C</p>
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SECTION 10 - STABILITY AND REACTIVITY

Note: Materials listed as stable may become unstable up depletion of inhibitors (such as mequinol or hydroquinone), contact the manufacturer for exact levels and instructions on inhibitor maintenance.

Material stability

Unstable

Incompatible materials

No data available

Hazardous decomposition products

No data available

Possibility of hazardous reactions

Hazardous polymerization will not occur.

SECTION 11- TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity: 1,060mg/kg

Dermal Toxicity: 500mg/kg

Inhalation Toxicity: 7mg/L

Component Toxicity

79-41-4

Methacrylic Acid

Oral: 1,060 mg/kg (Rat) Dermal: 500 - (Rabbit) Inhalation: 7 mg/L (Rat)

Routes of Exposure

Ingestion

Target Organs

Eyes

Skin

Respiratory System

Effects of Overexposure

Product Components Listed as Carcinogenic

CAS Number

Description

% Weight

Carcinogen Rating

None

No data available

SECTION 12 - ECOLOGICAL INFORMATION

Component Ecotoxicity

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Treatment MethodsDisposal of Wastes

It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. When discarded as shipped it is a hazardous waste by the EPA under RCRA. After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

Contaminated Packaging

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations

SECTION 14 - TRANSPORTATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	METHACRYLIC ACID, STABILIZED	UN2531	II	8
IATA	METHACRYLIC ACID, STABILIZED	UN2531	II	8
IMDG	METHACRYLIC ACID, STABILIZED F-A, S-B	UN2531	II	8

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SECTION 15 - REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 313

- None

US State Right-to-Know Regulations

- None

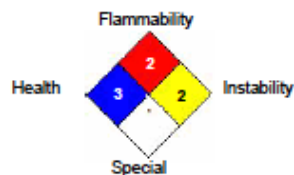
SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	2
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



THIS SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

END OF SDS