

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Acrylic Liquid - Oratone Heat Cure (IDP)
Product Number: I2006, I2007, I2020, I2021, I2010, I2024
Synonyms: Oratone Heat Cure Liquid
Chemical Name: Acrylic Liquid (monomer)
Chemical Family: Methyl Methacrylate
CAS Number: Blend

Company Identification

International Dental Products
Division of CMP Industries LLC
413 North Pearl Street
Albany, NY 12207-1311 USA
(518)-434-3147 (For product information)
(800)-424-9300 (For emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
METHYL METHACRYLATE	99.5 %	80-62-6

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute, chronic hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
*                               DANGER                               *
*
* Prolonged exposure can lead to kidney and liver                 *
* damage.                                                            *
*                                                                     *
*****
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POTENTIAL HEALTH EFFECTS

EYE:

Can cause slight eye irritation.

SKIN:

Can cause moderate skin irritation and sensitization.

INHALATION:

Can cause irritation of the nose and throat. Repeated or prolonged exposure can cause headache, nausea, drowsiness and unconsciousness.

INGESTION:

Ingestion is not considered a potential route of exposure. Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE:

Headaches, nausea, staggering gait, confusion drowsiness and unconsciousness.

CHRONIC EFFECTS:

Prolonged and repeated exposure can cause the following: allergic skin reaction, kidney damage and liver damage.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

TARGET ORGAN:

Will affect the eyes and upper respiratory tract.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Individuals with pre-existing skin disorders may be more susceptible to severe irritation and possible sensitization.



4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Get medical attention.

SKIN CONTACT FIRST AID:

Wash affected area immediately with large amounts of soap and water. Get medical attention.

INHALATION FIRST AID:

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 9.0 C (48.2 F)
Autoignition Temperature: 435.0 C (815.0 F)

FLAMMABLE LIMITS IN AIR

LEL: 2.12 %
UEL: 12.5 %

FLAMMABLE PROPERTIES:

Vapors can travel to a source of ignition and flash back. Heat can cause polymerization. Heated containers will explode.

EXTINGUISHING MEDIA:

Water spray, Carbon Dioxide, dry chemical and polar solvent(alcohol) foam.

FIRE & EXPLOSION HAZARDS:

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are the same as those of coal dust. Firefighters should wear self-contained breathing apparatus and full protective gear.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

COMBUSTION PRODUCTS:

Not known.



6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

LARGE SPILLS PROCEDURE:

Contain spills immediately with inert materials (e.g. sand, earth, etc). Transfer liquids & solid diking material to separate suitable containers for recovery or disposal. Contaminated monomer may be unstable. Add inhibitor to prevent polymerization.

CAUTION: Keep spills and cleaning runoff out of municipal sewers & open bodies of water. Spills on porous surfaces can contaminate ground water.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Store out of direct sunlight in a cool place. Avoid temperature extremes during storage. Material can burn. Limit indoor storage to approved areas equipped with automatic sprinklers. Use monomer within 1 year.

HANDLING (PHYSICAL ASPECTS):

Store in a cool dry area. Keep container closed to prevent water absorption and contamination. Do not store in an oxygen free environment. Total absence of oxygen will inactivate the inhibitor.

STORAGE PRECAUTIONS:

Store in a cool place.

SPECIAL SENSITIVITY:

Don't store in an oxygen free environment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Wear chemical goggles.

SKIN PROTECTION REQUIREMENTS:

Protective butyl rubber gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

OSHA/NIOSH approved mask, air-purifying respirator if airborne concentrations exceed are up to 10X the TLV's. Air-purifying mask doesn't protect in oxygen deficient areas.



(section 8 continued)

MISCELLANEOUS:

Use good local exhaust. Wear chemically resistant apron or other impervious clothing.

EXPOSURE GUIDELINES:

METHYL METHACRYLATE

OSHA PEL: 100 ppm, 410 mg/m³

OSHA TWA: 100 ppm, 410 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Clear
ODOR: Fruity
BOILING POINT: 101 C
VAPOR PRESSURE: 29 mm Hg @ 20 C
VAPOR DENSITY: 3.5 (Air = 1)
SOLUBILITY IN WATER ...: Slight
SPECIFIC GRAVITY: 0.94 (Water = 1)
% VOLATILES: 100 %
EVAPORATION RATE: (BuAc = 1) 3.1

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Hazardous polymerization will occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong oxidizing agents, reducing agents, UV light, bases and acids.

DECOMPOSITION:

Not known.

CONDITIONS TO AVOID:

Chilled and then warmed will cause polymerization.



11. TOXICOLOGICAL INFORMATION

METHYL METHACRYLATE

Test Code: LC50
Species: Rat
Results: 3750 ppm

Test Code: TCLO
Species: Human
Results: 125 ppm

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Dispose of material in accordance with all local, state/provincial, and national regulations.

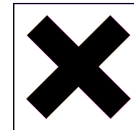
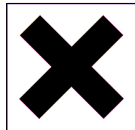
14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Acrylic Liquid - Oratone Heat Cure (IDP)
D.O.T. SHIPPING NAME: Methyl Methacrylate, inhibited
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: Flammable Liquid
UN NUMBER: N/A

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger:

Harmful (Xn), Irritant (Xi)



R-Phrases:

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



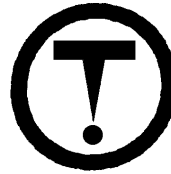
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S-Phrases:

S16 - Keep away from sources of ignition. No smoking.
S3 - Keep in a cool place.
S8 - Keep container dry.

WHMIS Hazard Symbols:

Class B - Flammable and Combustible Material, Class D2 - Materials
Causing Other Toxic Effects



Canadian Disclosure List

METHYL METHACRYLATE (80-62-6)

SARA Title III - Section 313

METHYL METHACRYLATE (80-62-6)

CERCLA Hazardous Substances

METHYL METHACRYLATE (80-62-6) -- RQ 1000 lb

RCRA Hazardous Substances

METHYL METHACRYLATE (80-62-6) -- RCRA Code: U162

Title V

METHYL METHACRYLATE (80-62-6)

SC Toxic Air Pollutants List

METHYL METHACRYLATE (80-62-6)

16. OTHER INFORMATION

REASON FOR ISSUE: Add current date to MSDS
PREPARED BY: Phyll Tabone
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: January 13, 2010
SUPERCEDES DATE: November 6, 2006
RTN NUMBER: 00000266 (Official Copy)



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END OF MSDS

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