

# SAFETY DATA SHEET



Date Prepared : 10/20/21  
MSDS No : MS1  
Date Revised : 5/16/2023

Revision No : 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION:** MS1

**USE OR APPLICATION:** Die Hardener

### MANUFACTURER

Harvest Dental Products, LLC  
905 Columbia St.  
Brea, CA 92821  
**Emergency Contact:** INFOTRAC  
**Emergency Phone:** 800-535-5053  
**International Emergency Phone:** 1-352-323-3500  
**Product Stewardship:** 714-674-7400

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

Health: Eye Irritation, Category 2  
Narcotic Effects, Category 3  
Physical: Flammable Liquids, Category 2

### SIGNAL WORD

Danger

### GHS LABEL ELEMENTS



### HAZARD STATEMENTS

H226: Flammable liquid and vapor.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

### PRECAUTIONARY STATEMENTS

P210: Keep away from heat/sparks/open flames/hot surfaces - no smoking.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P233: Keep container tightly closed.  
P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264: Wash skin and hands thoroughly after handling.  
Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing.

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## 2. HAZARDS IDENTIFICATION (Continued)

P312: Call POISON CENTER or doctor/physician if you feel unwell.

P264: Wash skin and hands thoroughly after handling.

P303+P361+P353: If on skin (or hair): Remove all contaminated clothing. Rinse skin with water/shower.

P304+P340: If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

### STORAGE:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

### DISPOSAL:

79441501: Dispose of in a manner consistent with federal, state and local regulations.

### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, colorless liquid.

IMMEDIATE CONCERNS: R/36/37/38: Irritating to eyes, respiratory system and skin.

### POTENTIAL HEALTH EFFECTS

**EYES:** Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

**SKIN:** Prolonged or repeated contact may cause skin irritation.

**INGESTION:** Ingestion may cause headache, dizziness, fatigue and CNS depression.

**INHALATION:** May cause headaches and dizziness.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing eye and skin disorders or lung allergies may be aggravated by exposure.

**ROUTES OF ENTRY:** Inhalation or direct contact with skin or eyes.

**IRRITANCY:** Irritating to eyes, respiratory system and skin.

**SENSITIZATION:** May cause allergic skin reaction.

**HEALTH HAZARDS:** Danger of cumulative effects.

**PHYSICAL HAZARDS:** Flammable liquid and vapor. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. Affects CNS.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Under GHS-OSHA 4.11 the precise composition of this product is withheld as confidential business information (CBI). A more complete disclosure can be provided to a health, or safety professional when necessary.

### SUBSTANCES or MIXTURE

NO.	COMPONENT	CAS.NO	WL%
	Mixture		
	Methyl ethyl ketone (MEK)	78-93-3	60 - 74
	Acrylic Resin	25086-15-1	26 - 40

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## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash with soap and water. Get medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:** If swallowed, do not induce vomiting. Do not give anything to drink. Obtain immediate medical attention.

### SIGNS AND SYMPTOMS OF OVER EXPOSURE:

**EYES:** Causes eye irritation.

**SKIN:** Causes irritation to skin.

**INGESTION:** Gastrointestinal tract irritation and depression of the CNS.

**INHALATION:** Signs and symptoms of excessive exposure may be CNS effects such as sleepiness and unconsciousness.

**ACUTE TOXICITY:** R36/37: Irritating to eyes and respiratory system.

**CHRONIC EFFECTS:** None expected.

## 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Flammable liquid and vapor.

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this materials.

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

**FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustible by-products of carbon monoxide/dioxide.

COMMENTS: Exposure to heat above 200C (392F) may release Methyl Methacrylate monomer (CAS 80-62-6). (OSHA PEL, ACGIH TLV = 100ppm).

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

**LARGE SPILL:** Remove all sources of ignition. Use spark-proof tools. Contain spilled liquid with sand.

DO NOT use combustible materials such as sawdust. Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

### ENVIRONMENTAL PRECAUTIONS:

**WATER SPILL:** Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed container for disposal.

**GENERAL PROCEDURES:** Remove all sources of ignition. Use spark-proof tools.

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

**HANDLING:** Use with sufficient ventilation to keep employee exposure below recommended limits.

Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

**STORAGE:** Store in cool place in original container and protect from sunlight. Keep away from sources of ignition.

**STORAGE TEMPERATURE:**

Avoid temperatures exceeding 100F/38C and incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Nitrile rubber and PVC are not suitable protective materials; Neoprene is recommended.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organ 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.

**WORK HYGIENIC PRACTICES:** Wash with soap and water. Get medical attention if irritation develops or persists.

**OTHER USE PRECAUTIONS:** Clothing: S24 Avoid contact with skin and clothing. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild ketone odor.

**APPEARANCE:** Clear, colorless liquid

**FLASH POINT AND METHOD:** -4C (25F) TAG CC

**FLAMMABLE LIMITS:** 2.6% to 12.8%

**VAPOR PRESSURE:** 83mmHg at 24C (75F)

**BOILING POINT:** 79C (175F)

**SOLUBILITY IN WATER:** Moderate

**EVAPORATION RATE:** 6.0 (n-Butyl Acetate=1)

**SPECIFIC GRAVITY:** 0.86 (water=1)

**(VOC):** 731.000 g/L

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## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Heat, flames, ignition sources and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Moderately irritating to eyes and skin.

**SKIN EFFECTS:** Irritating to skin. May cause allergic skin reaction with prolonged contact.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Keep out of storm sewers and ditches which lead to waterways. No other data is available.

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Please refer to Section 8 for Exposure Controls/Personal Protection.

## 14. TRANSPORT INFORMATION

**DOT DEPARTMENT OF TRANSPORTATION/AIR/VESSEL(IMO/MDG)**

**UN Number:** 1193 **UN Proper Shipping Name:** Methyl Ethyl Ketone.

**TRANSPORT HAZARD CLASS(S)** 3

**PACKING GROUP NUMBER:** II

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## 15. REGULATORY INFORMATION

### UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 313

REPORTABLE INGREDIENTS: Section 313: Methyl ethyl ketone.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** This product is listed on the TSCA Inventory.

**WHMIS CLASS:** Class B2 - Flammable

## 16. OTHER INFORMATION

**PREPARED BY:** Sasha DerAvanessian

**REVISION SUMMARY:** This SDS replaces all prior MSDS.

HMIS RATING:

RATINGS:

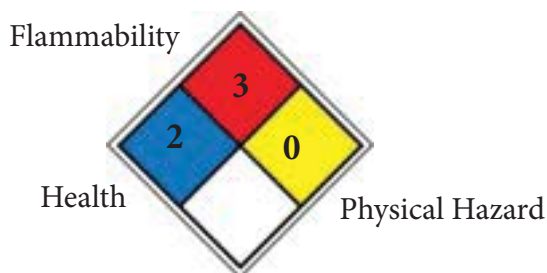
0 = Minimal

2 = Slight

3 = Serious

4 = Severe

### NFPA CODES



### MANUFACTURER DISCLAIMER:

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