ACROPARS 200 – LIQUID SPECIAL TRAY ACRYLIC MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

I- MANUFACTURER:

Marlic Medical Industries Co. Unit 8, No. 12, Fajr St, Motahari Ave. P.O.BOX: 15754-431 Tehran – Iran

II- TELEPHONE:

Tel: 0098 21 88325938 Fax: 0098 21 88315069

III- PRODUCT: ACROPARS 200 - LIQUID

METHYL METHACRYLATE

IV- CHEMICAL NAME: 2. **COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT (S):	CAS NO.	%	HAZARD SYMBOL:
Methyl Methacrylate	80-62-6	> 95	F,Xi
Accelerator	99-97-8	<2	т
Crosslinker	97-90-5	<5	Xi

HAZARDS IDENITIFICATION 3.

• Highly flammable.

• Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact High atmospheric concentrations may lead to irritation of the respiratory tract and anesthetic effects. Repeated and/ or prolonged contact may cause dermatitis

FIRST- AID MEASURES 4.

INHALATION:	Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.
• SKIN:	Remove contaminated clothing, Wash skin immediately with water. Of symptoms (irritation or blistering) occur obtain medical attention.
• EYE:	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
INGESTION:	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention. Never give anything by mouth to an unconscious person. Call a physician.

NOTES TO PHYSICIAN: Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400 ml wear and mix thoroughly. Administer 5 ml/kg, or 350 ml, for an average adult.

5. FIRE FIGHTING MEASURES

• FLASH POINT (METHOD): TEMPERATURE:	1.5°C (52.7°F)(TCC)
• APPROX. FLAMMABLE LIMITS:	LEL 2.1% UEL 12.5%
• AUTOIGNITION:	421°C(789.8°F) Highly flammable. May polymerize on heating. Sealed containers may rupture explosively if hot.
• EXTINGUISHING MEDIA:	Water spray, form, dry powder or CO2. Keep fire exposed containers cool by spraying

with water.

• FIRE FIGHTING PROTECTIVE EQUIPMENT:

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection during removal of spillages. Prevent entry into drains. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal or recovery. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING:	Observe precautions found on the label. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment.
• HANDLING:	Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use only in well ventilated areas. The vapor is heavier than air; beware of pits and confined spaces. Take precautionary measures against static discharges.
• STORAGE:	Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight. Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.
• IMPORTANT:	Methacrylate stored in bulk must be kept in contact with air (oxygen). Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents
• STORAGE TEMPERATURE:	Preferably not exceeding 25 °C.
INDUSTRIAL HYGIENE PRACTICES:	Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is no exceeded.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

• RESPIRATORS:	exposure limit is lik	ely. A suitable mask of particularly high	quipment to lecels above the occupational with filter type A maybe appropriate. In the levels of vapor a self-contained breathing
• EYE PROTECTION:	Safety glasses or chemical splash goggles.		
• GLOVES:	Wear suitable gloves. PVA/Polythylene laminate and supported PVA gloves offer the best protection. Gloves should be Changed regularly and if excessive exposure has occurred.		
• OTHER:	Wear suitable prote	ctive clothing.	
• OCCUPATIONAL EXPOSURE LIMITS: HAZARDOUS INGREDIENT (S): Methyl Methacrylate	PEL (OSHA): 100 ppm, 410 mg/m ³ 8 Hr. TWA	TLV (ACGIH): 100 ppm, 410 mg/m ³ , 8 Hr. TWA	COMPANY RECOMMENDATION: 50 ppm, 205 mg/m ³ , 8 Hr.TWA; 100 ppm, 410 mg/m ³ 15 min. STEL
HYSICAL AND CHEMICAL PROPERTIES			

9. PHYSICAL AND CHEMICAL PROPERTIES

• VAPOR DENSITY (AIR=1):	3.5 AT 15.5°C (60°F)
 VAPOR PRESSURE (29 mmHg): 	20°C (68°F)

• WATER SOLUBILITY:	1.6% GM AT 20° C (68°F)
• PERCENT VOLATILE (WW%):	(H ₂ O=1): 99+
• BOIL POINT:	101° C, 214°F
• SPECIFIC GRAVITY:	0.94
• ODOR:	Characteristic
• FORM:	Liquid
• COLOR:	Colorless
• VISCOSITY:	Like water
• EVAPORATION RATE (BuAc=1):	3.0

10. STABILITY AND REACTIVITY

 HAZARDOUS REACTIONS: Stable in the presence of inhibitor. Susceptible to polymerization initiated by prolonged heating or the presence of catalyst. Incompatible materials: Polymersation catalysts, such as peroxy or azo compounds, strong acids, Alkalis and oxidizing agents.
 HAZARDOUS DECOMPOTION Does not decompose up to auto-ignition temperature.

11. TOXICOLOGICAL INFORMATION

PRODUCT (S):

• INHALATION:	Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory trao dizziness, headache and anesthetic effects.
• SKIN:	May cause sensitization by skin contact. Irritating to skin. Repeated and / of prolonged contact may cause dermatitis.
• EYE:	Irritating to eyes. High vapor concentration will cause irritation.
• INGESTION:	Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
• LONG TERM EXPOSURE:	Repeated exposure to high levels produces adverse effects on the heart, lungs, liver, and kidneys.

Repeated exposure of animals by inhalation to levels at or above the occupational exposure level produces adverse effects on the nasal epithelium (levels of 100 and 400 ppm).

Recent studies in animals have shown that high exposures do not produce embryo or foetotoxic nor teratogenic effects in the presence of matemal toxicity.

None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.

TOXICITY DATA: For Methacrylate:	
Acute Oral Rat LD ₅₀ :	7990 mg/kg
Acute Dermal Rabbit LD ₅₀ :	35.500 mg/kg
Acute Inhalation Rat: LD ₅₀	>12,500 to 16,500 ppm for 0.5 hours
Inhalation Human TC _{Lo}	125 ppm_
Inhalation Human TC _{Lo}	60 mg/m ³
Human Patch Test:	Approximate on-third of subjects developed mild redness at the site of application. Twenty percent showed sensitivity when tested 10 days later.

12. ECOLOGICAL INFORMATION

• ENVIRONIMENAL FATE AND DISTRIBUTION: High tonnage material produced in wholly contained systems. Liquid with moderate volatility. The product is sparingly soluble in water. The product has low potential for bioaccumulation. The product is predicted to have high mobility in soil. Not readily biodegradable.

PERSISTENCE AND DEGRADATION:	Chemical Oxygent Demand (COD) 88% (28 days). Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC removal) . 95% (28 days)/
• TOXICITY:	Low toxicity to fish. LC ₅₀ (fish) Typically:100 mg/l. LC ₅₀ (fathead minnow) (96 hour) (static) 130 mg/l Harmful to aquatic invertebrates. EC50 (Daphnia magna) (48 hour) 69 mg/l Low toxicity to algas. EC50 (selenastrum capricomutum) (96 hour) 170 mg/l
• EFFECT ON EFFLUENT TREATMENT:	The product is substantially removed in biological treatment processes.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local. State or national legislation. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of methyl methacrylate. Decontaminate empty drums before recycling.

14. TRANSPORTATION

• UN NO.:

• TRANSPORT BY LAND: UN no.: GGVS: ADR: GGVS/ADR note: GGVE: RID: GGVE/RID note: Tank lorry RN 10500: Packing roup land:	1247 Class 3, item 3b Class 3, item 3b Methyl methacrylate, inhibited. Class 3, item 3b Class 3, item 3b Methyl methacrylate, inhibited. 339/1247 II
• TRANSPORT THROUGH THE AIR	3:
UN no./ID no: ICAO/IATA: Technical name: Packing group air:	1247 Class 3 Methyl Methacrylate, inhibited. II
• TRANSPORT BY SEA:	
UN no. sea: IMDG/GGVSee code: EmS: MFAG: Technical neme: Packing group sea: • TRANSPORT BY INLAND WATER ADNR: ADNR: ADNR category:	1247 Class 3.2 3-07 330 Methyl methacrylate, inhibited. II RWAYS: Class 3 (Illa), item 1a K 1 n
Note inland Waterways:	Methyl methacrylate.
• FURTHER INFORMATION: The product contains more than 70 Methacrylate, monomer, stabilized Registration EC list hazardous mat Methyl methacrylate Cross linker Accelerator Hydroquinone	by hydroquinone.
REGULATORY INFORMATION	

1247

- EC REGULATIONS:
- EINECS:

15.

All chemical listed

EEC Classification:	HIGHLY FLAMMABLE AND HARMFUL Symbol: Indication of Danger F Highly Flammable Xn Harmful
Risk Phrases:	R11 Highly flammable. R20/21/22 Harmful by inhalation. And in contact with skin. R36/37/38. Irritation to the eyes, respiratory system and skin. R43 May cause sensitization by skin contact.
Safety Phrases:	S9 Keep container in well ventilated place. S 16 Keep away from sources of ignition. No smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 Take precautionary measures against static discharges. S36/37 Wear suitable protective clothing and gloves. S60 This material and its container must be disposed of as hazardous waste.

• CANADIAN REGULATIONS:

DSL:	included
 WHMIS Classification: 	B2 Flammable Liquid
	D2B Toxic
• TSCA:	FOR USE IN FDA REGULATED PRODUCTS ONLY

16. OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

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HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

PERSONAL PROTECTIVE EQUIPMENT – Gloves and safety glasses or chemical splash goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

This data sheet was prepared in accordance with Directive 91/155/EEC.
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