

ACROSOFT SL – LIQUID HEAT CURE SOFT LINER 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:

ACROSOFT SL – LIQUID

IV- CHEMICAL NAME:

N-BUTHYL METHACRYLATE

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT (S):	CAS NO.	%	HAZARD SYMBOL:
N-Buthyl methacrylate	97-88-1	<50	Xi
Dibuthyl phthalate	84-74-2	< 50	Xn.N

3. HAZARDS IDENTIFICATION

- 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

4. FIRST- AID MEASURES

- 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 water and mix thoroughly. Administer 5 ml/kg, or 350 ml, for an average adult.

5. FIRE FIGHTING MEASURES

- FLASH POINT (METHOD):
TEMPERATURE:** 49°C
- APPROX. FLAMMABLE
LIMITS:** LEL 2% UEL 8%
- AUTOIGNITION:** 294°C(789.8°F) Highly flammable. May polymerize on heating. Sealed containers may rupture explosively if hot.
- Flammable.** Vapors or gases may travel considerable distance to ignition source and flash back.

- **FIRE AND EXPLOSION HAZARDS:** Fine mist or sprays may be flammable at temperatures below the flash point. May polymerize on heating. Sealed containers may rupture explosively if hot.
- **EXTINGUISHING MEDIA:** Water spray, foam, 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 not 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:** Wear suitable respiratory protective equipment to levels above the occupational exposure limit is likely. A suitable mask with filter type A maybe appropriate. In the event of formation of particularly high levels of vapor a self-contained breathing apparatus may be appropriate.
- **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 protective clothing.

• OCCUPATIONAL EXPOSURE LIMITS: HAZARDOUS INGREDIENT (S): N-Butyl Methacrylate

PEL (OSHA):
N/E³

TLV (ACGIH):
N/E

COMPANY RECOMMENDATION:
50 ppm,(PWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

- **VAPOR DENSITY (AIR=1):** 4.9 AT 15.5°C (60°F)
- **PERCENT VOLATILE:** 100
- **COLOR:** Colorless to pale yellow
- **WATER SOLUBILITY:** 0.1% at 20°C
- **VAPOR PRESSURE (4.9 mmHY):** 20°C (68°F)
- **ODOR:** Characteristic
- **BOILING POINT:** 163-164°C
- **SPECIFIC GRAVITY:** 0.90 at 15.5°C
- **FORM:** liquid

10. STABILITY AND REACTIVITY

- **STABILITY:** Stable
- **CONDITIONS TO AVOID:** Heat and ignition sources; contamination.
- **INCOMPATIBILITY (MATERIALS TO AVOID):** Reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.
- **HAZARDOUS DECOMPOTION PRODUCTS:** CO, CO₂, smoke
- **HAZARDOUS POLYMERIZATION:** Can occur.
- **CONDITIONS TO AVOID FOR HAZADOUS POLYMERIZATION:** Excessive heat, storage in absence of inhipotor; inadvertent addition of catalyst.

11. TOXICOLOGICAL INFORMATION

- **INHALATION:** Irritating to respiratory system. The vapor has anesthetic properties and when inhaled at concentrations above the occupational exposure limit it may cause headache, fatigue, dizziness, in coordination and loss of consciousness.
- **SKIN:** May cause sensitization by skin contact. Irritating to skin. Repeated and / or 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:** This material has been in use for many years with no evidence of adverse effects.

There is no evidence of mutagenic potential.

Carcinogenicity information: None of the components in this material is listed by IARC, NTP, OSHA or ACGIH as a carcinogen. Some evidence of potential for developmental toxicity but inadequate information is available to assess the teratogenic hazard. By analogy with other methacrylates it is unlikely that n-butyl methacrylate represents a teratogenic hazard to man.

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

- **TOXICITY DATA:**

Acute Oral Rat LD50: 22,600 mg/kg
Acute Dermal Rabbit LD50%): 11,30 mg/kg
Acute Inhalation Rat LC50: 4.910 ppm

12. ECOLOGICAL INFORMATION

- **ENVIRONMENTAL 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.
- **PERSISTENCE AND DEGRADATION:** Readily biodegradable. 76%, 28 days. Biological Oxygen Demand (BOD 28 Day/DOC) 32.8%
- **TOXICITY:** Harmful to aquatic organisms.
LC50 (goldfish) (72 hour) 124 mg/l
- **EFFECT ON EFFLUENT TREATMENT:** The product is substantially removed in biological treatment processes.

13. DISPOSAL CONSIDERATIONS

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, State/provincial, and local regulations. Do not flush to surface or sanitary sewer system. Incinerate in a facility, which complies with Federal, state and local requirements. Do not incinerate in closed containers.

14. TRANSPORTATION

1. FLEXACRYL HARD-

PROPER SHIPPING NAME:	N-Butyl methacrylate, stabilized
NA/UN NUMBER:	UN 2227
DOT CLASS:	3
PACKING GROUP:	III
LABEL:	Flammable Liquid
AIR TRANSPORT- IATA CLASS:	3
OCEAN TRANSPORT- IMDG CLASS:	3

DOMESTIC CONTAINERS OF LESS THAN 450 L CAPACITY ARE NOT REGULATED BY DOT.

2. FLEXACRYL SOFT-

PROPER SHIPPING NAME:	Flammable liquid, n.o.s. (n-Butyl methacrylate, stabilized solution)
NA/UN NUMBER:	UN 1993
DOT CLASS:	3
PACKING GROUP:	III
LABEL:	Flammable Liquid /marine pollutant
AIR TRANSPORT- IATA CLASS:	3
OCEAN TRANSPORT- IMDG CLASS:	3

15. REGULATORY INFORMATION

- **EC REGULATIONS:**
- **EINECS:** N-Butyl Methacrylate, 202-615-1
- **EEC Classification:** HARMFUL AND DANGEROUS FOR THE ENVIRONMENT
Symbol: Indication of Danger

1. FLEXACRYL HARD: Xn Harmful

Risk Phrases:
R10 Flammable
R20/21/22 Harmful by inhalation,
In contact with skin and if swallowed.
R33 Danger of cumulative effects.
R36/37/38 Irritating to the eyes,
respiratory system and skin.
R43 May cause sensitization by skin
contact.

Safety phrases:
S9 keep container in well ventilated place.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek
medical advice.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

2. FLEXACRYL SOFT: Xi irritant

Risk Phrases:

R10 Flammable R36/37/38 Irritating to the eyes, respiratory system and skin.

With

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk on impaired fertility

R63 Possible risk of harm to the unborn child

Safety Phrases:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately

Plenty of water and seek medical advice.

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

S61 Avoid release to the environment.

Refer to special instructions/Safety data sheets.

CANADIAN REGULATIONS-

DSL: Included

WHMIS Classification: B3 Combustible

Liquid

D2B Toxic. Skin or eye irritant.

16. OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH = 2

FLAMMABILITY = 2

REACTIVITY = 2

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

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