ACROSOFT TC – LIQUID TISSUE CONDITIONER

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 TC – LIQUID

IV- CHEMICAL NAME: Phthalate Ester and Denatured Alcohol

2. COMPOSITION / INFORMATION ON INGREDIENTS

• HAZARDOUS INGREDIENT (S): CAS NO. % HAZARD SYMBOL:

Dialkyl phthalate 84-74-2 <85 Xn,N Denatured Alcohol 64-17-5 <25 F

3. HAZARDS IDENITIFICATION

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

5. FIRE FIGHTING MEASURES

• FLASH POINT (METHOD): TEMPERATURE:

16.6°C (61.88°F)(TCC)

• APPROX. FLAMMABLE

LIMITS:

LEL 3.3% UEL 19%

• AUTOIGNITION: 363°C(685°F) Highly flammable. TEMPERATURE:

• 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.

Avoid contact with skin and eyes. • HANDLING:

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.

Keep only in original container. Store in cool, dry place away from heat, sparks, flame • STORAGE:

and direct sunlight. Keep container closed to prevent water absorption and

contamination. Keep away from sources of ignition - No Smoking.

• 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.

Wear suitable respiratory protective equipment to lecels above the occupational • RESPIRATORS:

> 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 Spectacle / full - face shield

• 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): Dibuthyl phthalate Denatured Alcohol

PEL (OSHA): TLV (ACGIH): 5 ma/m 5 ma/m 1000 ppm 1000 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

• EVAPORATION RATE 2.8

(BuAc=1):

• PERCENT VOLATILE (WW%): <25 • SPECIFIC GRAVITY:

• VAPOR PRESSURE: 59.3 mmHg AT 20°C (68°F) • **BOIL POINT**: 78° C, 173°F

• APPEARANCE: Clear and colorless and oily liquid

• SOLUBILITY IN H20: NE

• VAPOR DENSITY: 1.59

(AIR=1)

ODOR: Characteristic

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.

11. TOXICOLOGICAL INFORMATION

• PRIMARY ROUTES OF ENTRY: Eyes, skin, inhalation and ingestion.

• CARCINOGENICITY: None of the components of this material are listed by IARC, NTP,OSHA, or ACIGH as

carcinogen

• TARGET ORGANS: For Dialkyl Phthalate: Kidneys, liver and nervous system.

For alcohol: Eyes, kidneys, liver and nervous system.

• EFFECTS OF EXPOSURE: General – High oral doses of this material given to pregnant animals produced some

minor abnormalities in their offspring. However, high doses to humans handling this material are not expected since oral consumption is not a likely route of significant exposure. Because this material does not evaporate readily and is not easily absorbed through the skin, it is not expected to produce such effects in humans through inhalation or skin exposure when handled in a manner consistent with the

precautionary measures contained in this material safety data sheet.

• 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: May cause irritation, burning, tearing and redness of the eyes.

• INGESTION: Ingestion of excessive quantities may cause nausea, abdominal pain and fiarrhea.

• TOXICITY DATA:

For dialkyl phthalate: Acute Oral Rat LD50: 8.0 g/kg
Acute Dermal Rabbit: >20 ml/kg

12. ECOLOGICAL INFORMATION

ENVIRONIMENAL EFFECTS: When spilled on the land ethyl alcohol is apt to volatize, blodegrade, and/or leach into

the ground water. It is anticipated based on physical properties of ethyl alcohol including water solubility, vapor pressure, and octanol/water coefficient that water will serve as the terminal media. Based on these factors it is anticipated that this substance will neither adsorb to soil nor bioconcntrate in aquatic organisms. Once in water photolysis, oxidation, hydrolysis, and biodegradation is anticipated to occur.

• TOXICITY:

For Dialkyl Phthalate: LC₅₀ (flathead minnow) (96 hour) 1-10 micro/L

13. DISPOSAL CONSIDERATIONS

All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

WASTE DISPOSAL METHOD: Disposal should be in accordance with local, state or national legislation. Incinerate liquid and diking material in accordance with federal, state and local regulatons.

14. TRANSPORTATION

AIR TRANSPORT-

DOT / UN SHIPPING NAME: Flammable liquid, n.o.s. (Ethanol solution)

NA/UN NUMBER: UN 1993 LATA CLASS: 3 PACKING GROUP: II

LABEL: Flammable liquid

OCEAN TRANSPORT-

DOT/UN SHIPPING NAME: Flammable liquid, n.o.s. (Ethanol/Dibutul phthalate solution)

NA/UN NUMBER: UN 199 IMDG CLASS: 3.2 PACKING GROUP: II

LABEL: Flammable liquid / marine pollutant

15. REGULATORY INFORMATION

• EC REGULATIONS:

EINECS:
 All chemical listed

• EEC Classification: HIGHLY FLAMMABLE AND HARMFUL

Symbol: Indication of Danger

F Highly Flammable

Xn Harmful

• Risk Phrases: R11 Highly flammable.

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

aquatic environment.

R638 possible risk on impaired fertility

R 63 possible risk on harm to the unborn child

• Safety Phrases:

S7/9 Keep container tightly closed and in a well ventilated place.

S 16 Keep away from sources of ignition. No smoking. S33 Take precautionary measures against static discharges. S33 Take precautionary measures against static discharges.

S36/37 Wear suitable protective clothing and gloves.

S57 Use appropriate container to avoid environmental contamination.
S61 Avid release to the environment. Refer to special instructions/safety data sheets/

• 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:

HEALTH = 1 FLAMMABILITY = 3 REACTIVITY = 0

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

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

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. Marlic Medical Ind. Co., Inc. shall not be held liable for any damage resulting from the handling of or contact with the above product.