

The healthcaring company®

This Material Safety Data sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product labeling.

## 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Mastisol<sup>®</sup> Liquid Adhesive

Marketed by: Eloquest Healthcare, Inc. Manufactured by: Ferndale Laboratories, Inc.

780 West Eight Mile Road Ferndale, Michigan 48220 780 West Eight Mile Road Ferndale, Michigan 48220

**Emergency Telephone:** For emergency involving spill, leak, fire exposure or accident, call

CHEMTREC (800) 424-9300, day or night

**Product Technical and** 

**Medical Information:** (800) 621-6003

#### 2. COMPOSITION/HAZARDOUS INGREDIENTS (OSHA-regulated, present at ≥ 1%) CAS Percent **Chemical Name Exposure Limits in Air** Number (by weight) Specially Denatured 64-17-5 <60% 1000 ppm TWA, OSHA/ACGIH; 1000 ppm STEL Alcohol 23A, 190 proof Gum Mastic 61789-92-2 <45% None Established Storax (Styrax) 8046-19-3 <5% None Established 1199-36-8 Methyl Salicylate <5% None Established

**Listed Carcinogens:** The following components, present at concentrations of ≥0.1% are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH: None.

3. HAZARDS IDENTIFICATION			
	<u>Health</u>	<u>Flammability</u>	Reactivity
National Fire Protection Association (NFPA) (estimated)	2	3	0

This product is HAZARDOUS by OSHA Hazard Communication definition. Flammable. May be harmful if swallowed.

## **Emergency Overview**

**Appearance:** Yellow colored liquid

**Odor:** Strong aromatic or balsamic odor

**Potential Health Effects** 

**Inhalation:** May cause upper respiratory tract irritation. High vapor concentration

may cause burning sensation in nose and throat.

**Eye Contact:** May cause irritation including stinging, tearing, and redness.

**Skin Contact:** Repeated or prolonged contact may cause irritation, defatting and

drying of skin.

**Skin Absorption:** Prolonged or widespread contact may result in the absorption of

potentially harmful amounts.

**Ingestion:** May cause dizziness, faintness, drowsiness, decreased awareness or

responsiveness, nausea, vomiting, staggering gait, lack of coordination, abdominal cramps, diarrhea, coma and death.

Medical Conditions Aggravated by Overexposure: Repeated exposure to ethanol may aggravate liver injury produced from other causes. Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.

Skin contact may aggravate dermatitis.

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air; give artificial respiration if not breathing. Obtain

medical assistance if respiratory irritation or distress continues.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention immediately. Continue to rinse.

**Skin:** Wash skin with soap and water for at least 15 minutes. Get medical

attention if symptoms persist or occur after washing. Remove contaminated clothing and shoes. Clean contaminated clothing and

shoes before re-use.

**Ingestion:** If patient is fully conscious, give 2-3 glasses of water. Do not induce

vomiting unless directed by medical personnel. Obtain medical

attention.

**Note to Physician:** For ingestion, any unabsorbed ethanol should be removed by gastric

lavage after intubating the patient to prevent aspiration. Avoid the use

of depressant drugs or the excessive administration of fluids.

## 5. FIRE FIGHTING

Flammable Properties: Flash Point:  $> 44^{\circ}F /> 7^{\circ}C$ 

Flammable Limits (volume % in air): LEL: 3.3 UEL: 19.0

**Autoignition Temperature:** Not available

**Extinguishing Media:** Small fire: CO<sub>2</sub> or dry chemical

Large fire: Water spray or foam

**Special Fire Fighting** 

**Procedures:** 

Self-contained breathing apparatus and full protective clothing should

be worn when fighting chemical fires.

Unusual Fire and Explosion Hazards:

• Vapors may travel to source of ignition and flash back.

• Vapors may settle in low or confined spaces.

• May produce a floating fire hazard.

Emits toxic fumes under fire conditions.

## ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Avoid contact with spilled material. See Section 4 for First Aid

advice. Use personal protection recommended in Section 8 of the

MSDS.

**Spill Cleanup Methods:** Prevent entry into sewers, basements or confined areas. A vapor

suppressing foam may be used to reduce vapors. Use clean nonsparking tools to collect absorbed material. Cover with inert, absorbent material and remove to disposal container. Flush with

plenty of water.

# 7. HANDLING AND STORAGE

**6.** 

**Handling:** Store at controlled room temperature between 59-86°F (15-30°C)

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Adequate ventilation so that exposure limits are not exceeded for

employees exposed to vapors.

**Respiratory Protection:** Not applicable; aerosol formation is extremely unlikely for normal

use. When handling large quantities an approved self-contained breathing respirator may be used if engineering controls do not maintain airborne contaminant concentrations at a level to adequately

protect a workers health.

**Eve Protection:** None required during normal administration or use of Mastisol®

Liquid Adhesive. When handling large quantities or if eye irritation occurs during use, use approved eye protection to safeguard against

potential eye contact/irritation.

**Protective Clothing:** Prolonged skin contact may require protective gloves.

**Hygienic Work Practices:** Wash hands thoroughly after handling. If working with large

quantities of Mastisol<sup>®</sup> Liquid Adhesive (such as spill clean-up), use chemical resistant gloves and appropriate eye protection. No eating,

drinking or smoking in area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellow colored liquid

**Nonvolatile Residue:** NLT 300 mg/g

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal ambient and anticipated storage and handling

conditions of temperature and pressure.

**Conditions to avoid:** Avoid high temperatures and all sources of ignition.

**Materials to avoid:** Avoid contact with strong oxidizing agents and strong inorganic acids.

Hazardous Decomposition Combustion can yield carbon dioxide, carbon monoxide, and other

**Products:** oxides of carbon.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

The topical safety of Mastisol<sup>®</sup> Liquid Adhesive has been demonstrated in the following studies. The product is considered non-cytotoxic and meets the requirements of the Agar Diffusion Test, ISO 10993-5 guidelines. A primary dermal irritation test in the rabbit showed the product to be a negligible irritant. The product showed weak allergenic potential, Grade I sensitization rate which is not considered significant in the guinea pig maximization test.

Gum Mastic and Storax have not been thoroughly investigated for chemical, physical and toxicological properties. Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. Repeated exposure to ethanol may aggravate liver injury produced from other causes. Skin contact may aggravate dermatitis.

In toxicology studies Methyl Salicylate has shown eye irritation and skin irritation in guinea pigs. Repeated large doses (both oral and dermal) have produced reproductive effects in rats.

# 12. ECOLOGICAL INFORMATION

There is no ecological information available at this time. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways.

# 13. DISPOSAL RECOMMENDATIONS

Vapors may collect in empty containers. Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dispose of via sinks, drains, or into immediate environment.

#### 14. TRANSPORT INFORMATION

**Transportation Incident Information:** For further information related to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

## **U.S. DOT Hazardous Material Shipping Description:**

Proper Shipping Name: Adhesives

Hazard Class: 3 UN/ID: UN1133 Packaging Group II

Finished Product: Shipped under Consumer Commodity

# 15. REGULATORY INFORMATION

**TSCA:** Exempt

**CERCLA:** Components present in this product at a level which could require

reporting under this statue are:

<u>Chemical</u> <u>CAS Number</u> <u>Upper Bound Conc.%</u>

Acetone 67-64-1 7.24 Methanol 67-56-1 0.0015 Acetaldehyde 75-07-0 0.0010

**SARA Title III (311/312):** Based upon available information, a component of this material is

classified as the following health and/or physical hazards according to Section 311 & 312, Acute Health Hazard and Chronic Health Hazard

SARA Title III (313): This material does not contain any chemical components with CAS

numbers that exceed the De Minimis reporting levels established by

SARA Title III Section 313 and 40 CFR 372.

California Proposition 65: This product contains trace levels of acetaldehyde known to the State

of California to cause cancer.

## 16. OTHER INFORMATION

Date Issued: January 12, 2012 Supersedes Date: March 4, 2010

MSDS: 0523, Mastisol® Liquid Adhesive

**Notice:** The preceding information is based on available data compiled by the manufacturer from its own studies and the work of others and is believed to be correct. However, no warranty is expressed or implied as to the accuracy, completeness or adequacy of this information, the results to be obtained from the use thereof or the hazards connected with the use of the material. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, Ferndale Laboratories, Inc. does not assume any responsibility for the results of its use. The information is furnished upon the condition that the persons receiving it shall make their own determination as to the suitability of the product for their particular use.