

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

## I. IDENTIFICATION

MANUFACTURED FOR Liberty Bell Equipment Corp.  
810 N. Jefferson Ave.  
St. Louis, MO 63106

REVISED: 03/01/2013  
PRINTED: 03/01/2013

24 Hour Emergency Telephone  
CHEMTREC 1-800-424-9300

General Information:  
Mon-Fri 8 AM - 5 PM  
712-737-4993

TRADE NAME: SYNTHETIC ENAMEL - HARDENER

MFG. PRODUCT NUMBER: 7008

## II. HAZARDOUS INGREDIENTS

Trade Secret		WT %:	20-50
ACGIH TLV: N.E.	ACGIH STEL: N.E.		
OSHA PEL: N.E.	OSHA CEILING: N.E.		OSHA PEAK: N.E.
VAPOR PRESSURE:	LEL%:		
CAS #64742-95-6	Aromatic 100	WT %:	20-50
ACGIH TLV: 25 ppm TWA	ACGIH STEL:		Footnote: (1)
OSHA PEL: 25 ppm TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 2.7mmHg20c	LEL%: 0.9		
CAS #95-63-6	1,2,4-Trimethylbenzene	WT %:	5-20
ACGIH TLV: 25 ppm TWA	ACGIH STEL:		Footnote: (1)
OSHA PEL:	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE:	LEL%:		
CAS #123-86-4	Butyl Acetate	WT %:	5-20
ACGIH TLV: 150 ppm TWA	ACGIH STEL: 200 ppm		Footnote: (1)
OSHA PEL: 150 ppm TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 7.8mm Hg20C	LEL%: 1.7		
CAS #141-78-6	Ethyl Acetate	WT %:	5-20
ACGIH TLV: 400 ppm TWA	ACGIH STEL:		Footnote: (1)
OSHA PEL: 400 ppm TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 76mm Hg20C	LEL%: 2.02		
CAS #98-82-8	Cumene	WT %:	0.318
ACGIH TLV: 50ppm TWA	ACGIH STEL:		Footnote: (2)
OSHA PEL: 50ppm TWA skin	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 8 mm Hg	LEL%: 0.9		

## WARNING MESSAGES:

- (1) Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.
- (2) International Agency for Research on Cancer (IARC) Monograph Volume 101 (2012) concludes that Cumene is "possibly carcinogenic to humans (Group 2B)" based on no data for humans, but sufficient evidence in experimental animals.
- (3) See Section IX for reportable Hazardous Air Pollutants.

## III. PHYSICAL DATA

BOILING RANGE: 161-356° F

EVAPORATION RATE: \* slower than ether \*

PERCENT VOLATILE BY VOLUME: 64.89%

WEIGHT PER GALLON: 8.20 LBS

VAPOR DENSITY: \* heavier than air \*

ACTUAL VOC (lb/gal): 4.78

EPA VOC (lb/gal): 4.78

EPA VOC (g/L): 572.84

#### IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 18° C 65° F

LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1B

HAZARD CLASSIFICATION: \*Flammable Liquid

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or Carbon Dioxide. Use water spray to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: With excessive heat, cans will rupture from internal pressure and discharge flammable contents. Vapors may ignite explosively. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build up of vapors by opening all windows and doors to achieve cross-ventilation.

SPECIAL FIRE FIGHTING PROCEDURE: Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turn-out gear to fight fires.

#### V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF OVEREXPOSURE:

ACUTE- Moderately irritating to the eyes and skin. Vapors may be mildly irritating to the nose, throat and respiratory tract and may be slightly toxic and harmful if inhaled or ingested.

CHRONIC- Repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis. Prolonged inhalation may result in central nervous system depression which may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness and

death may occur.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Asthma, Chronic respiratory disease (e.g. Bronchitis, Emphysema)  
Eye disease, Skin disorders and Allergies.

PRIMARY ROUTE(S) OF ENTRY: Eyes, Ingestion, Skin, Inhalation

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing.

Treat symptomatically. Consult a physician

EYES: Flush immediately with large amounts of water for at least 15 minutes. Consult a physician for medical treatment.

SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.

INGESTION: Consult a physician

## VI. REACTIVITY DATA

STABILITY: \*stable\*

HAZARDOUS POLYMERIZATION: \*will not occur\*

INCOMPATIBILITY: Amines, water, strong oxidizing agents, strong reducing agents, strong bases

HAZARDOUS DECOMPOSITION PRODUCTS: Isocyanate-containing vapors.

CONDITIONS TO AVOID: Fire, burning, and welding.

## VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Use non-sparking tools. Remove with inert absorbant.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If air concentrations above the TLV are possible, wear a NIOSH/MSHA approved respirator.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES: Impermeable gloves to prevent skin contact.

EYE PROTECTION:

Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear rubber apron and boots

HYGIENIC PRACTICES: See Section V

### **IX. SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Store in a cool, dry place. Keep container closed when not in use. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

OTHER PRECAUTIONS: Avoid resealing containers that have been contaminated with water. The resulting reaction could cause a pressure within the container which is great enough to burst the container.

This product contains no reportable Hazardous Air Pollutants.

---