

## 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

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

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

TRADE NAME: ORANGE

MFG. PRODUCT NUMBER: 30188

## II. HAZARDOUS INGREDIENTS

CAS #1330-20-7	Xylene	WT %: 20-50	Footnote: (1)
ACGIH TLV: 100 ppm	ACGIH STEL: 150 ppm		
OSHA PEL: 100 ppm	OSHA CEILING: NE	OSHA PEAK: NE	
VAPOR PRESSURE: 7 mmHg@20C	LEL%: 1		
CAS #68186-90-3	Chrome antimony titanate (Brown 24)	WT %: 5-20	
ACGIH TLV:	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE:	LEL%:		
CAS #64742-95-6	Aromatic 100	WT %: 5-20	Footnote: (1)
ACGIH TLV: 25 ppm TWA	ACGIH STEL:		
OSHA PEL: 25 ppm TWA	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE: 2.7mmHg20c	LEL%: 0.9		
CAS #64742-89-8	V M & P	WT %: 5-20	Footnote: (1)
ACGIH TLV: 300 ppm TWA	ACGIH STEL: 400 ppm		
OSHA PEL: 300 ppm TWA	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE: 10.2mmHg68F	LEL%: 0.9%		
CAS #13463-67-7	Titanium dioxide	WT %: 1-5	Footnote: (2)
ACGIH TLV: 10mg/m3 TWA	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE:	LEL%:		
CAS #7727-43-7	Barium sulfate	WT %: 1-5	
ACGIH TLV: 10 mg/m3	ACGIH STEL:		
OSHA PEL: 15 mg/m3 total dus	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE:	LEL%:		
CAS #95-63-6	1,2,4-Trimethylbenzene	WT %: 1-5	Footnote: (1)
ACGIH TLV: 25 ppm TWA	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE:	LEL%:		
CAS #100-41-4	Ethyl Benzene	WT %: 1-5	Footnote: (3)
ACGIH TLV: 100 ppm	ACGIH STEL: 125 ppm		
OSHA PEL: 100 ppm	OSHA CEILING: NE	OSHA PEAK: NE	
VAPOR PRESSURE: 10 mmHg@20C	LEL%: 1		
CAS #64742-48-9	Mineral Spirits	WT %: 1-5	Footnote: (1)
ACGIH TLV: 100 ppm TWA	ACGIH STEL:		
OSHA PEL: 500 ppm TWA	OSHA CEILING:	OSHA PEAK:	

VAPOR PRESSURE: 2.7 mm@20c

LEL%:

CAS #98-82-8 Cumene

WT %: 0.153

Footnote: (4)

ACGIH TLV: 50ppm TWA

ACGIH STEL:

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 93 (2010) concludes that Titanium dioxide is "possibly carcinogenic to humans (Group 2B)" based on inadequate evidence in humans and sufficient evidence in experimental animals.
- (3) International Agency for Research on Cancer (IARC) Monograph Volume 77 (2000) concluded that Ethylbenzene is "possibly carcinogenic to humans (Group 2B)" based on inadequate evidence in humans and sufficient evidence in experimental animals.
- (4) 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.
- (5) See Section IX for reportable Hazardous Air Pollutants.

### III. PHYSICAL DATA

BOILING RANGE: 240-385° F

EVAPORATION RATE: \* slower than ether \*

PERCENT VOLATILE BY VOLUME: 62.15%

WEIGHT PER GALLON: 9.26 LBS

VAPOR DENSITY: \* heavier than air \*

ACTUAL VOC (lb/gal): 4.34

EPA VOC (lb/gal): 4.34

EPA VOC (g/L): 520.11

### IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 22° C 72° F

LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1B

HAZARD CLASSIFICATION: \*Flammable Liquid

EXTINGUISHING MEDIA: \*carbon dioxide, dry chemical, or fire foam\*

UNUSUAL FIRE AND EXPLOSION HAZARDS: keep away from heat, sparks, and flame.

SPECIAL FIRE FIGHTING PROCEDURES: Water is unsuitable, but may be used to cool closed containers.

### V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

## EFFECTS OF OVEREXPOSURE:

Acute- High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Chronic- Xylene contains ethylbenzene which has been classified as a possible carcinogen to humans, Group 2B, by the International Agency for Research on Cancer(IARC), based on sufficient evidence in laboratory animals but inadequate evidence for cancer in humans. Prolonged or repeated overexposure to ethylbenzene may cause the following: kidney effects, liver effects, lung effects, thyroid effects, testicular effects, pituitary effects.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: consult physician

PRIMARY ROUTE(S) OF ENTRY: Skin and 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. Talk to a physician for medical treatment.

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

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by mouth to an unconscious person.

**VI. REACTIVITY DATA**

STABILITY: \*stable\*

HAZARDOUS POLYMERIZATION: \*will not occur\*

INCOMPATIBILITY: \* unknown \*

HAZARDOUS DECOMPOSITION PRODUCTS: Fire, burning and welding may generate carbon monoxide.

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: In confined areas of poor ventilation, use chemical cartridge respirator or self-contained breathing apparatus.

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: None required except for prolonged contact.

EYE PROTECTION:

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

OTHER PROTECTIVE EQUIPMENT: \*none\*

HYGIENIC PRACTICES: See Section V

### IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store near heat, sparks, or flame.

OTHER PRECAUTIONS: \* none \*

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 'National Emission Standards for Hazardous Air Pollutants':

Ingredient	CAS #	Wt% of HAPS in product	Pounds HAPS/ Gal product
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Xylene	1330-20-7	21.0 %	1.9
Chrome antimony titanate (Brow	68186-90-3	11.1 %	1.0
Ethyl Benzene	100-41-4	4.6 %	0.4

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