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EXPOSURE LIMIT:

ACGIH TLV/TWA: 400 ppm - TWA  
ACGIH TLV/STEL: 500 ppm - STEL  
OSHA PEL/TWA: 400 ppm - TWA  
OSHA STEL: 500 ppm  
LC50: Rat (8 Hrs) - > 12,000 ppm  
LD50: Oral (Rat) - 5840 mg/kg

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5

CAS# 108-10-1

METHYL ISOBUTYL KETONE

PCT BY WT: 4.9730 VAPOR PRESSURE: 16.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 50 ppm - TWA  
ACGIH TLV/STEL: 75 ppm - STEL  
OSHA PEL/TWA: 100 ppm - TWA  
OSHA STEL: 75 ppm  
LC50: Inhalation (Rat): 2000-4000 ppm/4H  
LD50: Oral (Rat)- 2080 mg/kg

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6 n-BUTYL ACETATE

CAS# 123-86-4

ACETIC ACID BUTYL ESTER

PCT BY WT: 15 - 20 VAPOR PRESSURE: 10.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: TWA 150 ppm (Proposed)  
ACGIH TLV/STEL: STEL 200 ppm  
OSHA PEL/TWA: TWA 150 ppm  
OSHA STEL: 200 ppm  
LC50: Inhalation (Rat) - > 1800 ppm/6 Hrs  
LD50: Oral (Rat)- 14,130 mg/kg

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7 ACETONE

CAS# 67-64-1

2-PROPANONE

PCT BY WT: 10 - 15

EXPOSURE LIMIT:

ACGIH TLV/TWA: TWA 500 ppm  
ACGIH TLV/STEL: STEL 750 ppm  
OSHA PEL/TWA: TWA 750 ppm  
OSHA STEL: 1000 ppm  
LC50: Inhalation (Rat)- >16,000 ppm/4Hrs  
LD50: Oral (Rat): 6715 - 8453 mg/kg  
CA PROPOSITION 65: No

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8

CAS# 100-41-4

ETHYLBENZENE

PCT BY WT: .1690 VAPOR PRESSURE: 7.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA:

TWA 100 ppm

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ACGIH TLV/STEL: STEL 25 ppm  
OSHA PEL/TWA: TWA 100 ppm  
OSHA STEL: 125 ppm  
LD50: Oral, Rat - 3500 mg/kg  
CA PROPOSITION 65: Yes  
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted in Section 3, Hazards Identification,  
CARCINOGENICITY.  
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\*\*\*\*\*  
This product contains one or more Hazardous Air Pollutants.  
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\*\*\*\*\*  
This product contains pigments, which may become a dust nuisance when  
removed by abrasive blasting, sanding, or grinding.  
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\*\*\*\*\*  
This product contains one or more reported or suspected reproductive  
toxins.  
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SECTION 3 - HAZARDS IDENTIFICATION  
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POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Prolonged or repeated skin contact may cause drying, cracking  
or irritation.

INHALATION: High vapor concentrations may cause drowsiness and  
irritation of the eyes or respiratory tract.

INGESTION: Swallowing small amounts of this product during normal  
handling is not likely to cause harmful effects, but  
swallowing large amounts may be harmful.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Any pre-existing respiratory or eye/skin conditions.

POSSIBLE ROUTES OF ENTRY

Inhalation, ingestion, skin absorption.

CARCINOGENICITY

Ethylbenzene has been shown to cause cancer in laboratory animals.  
The relevance of this finding to humans is uncertain. IARC has  
classified ethylbenzene as a possible human carcinogen, Group 2B.

HEALTH HAZARDS SPECIFIC TO PRODUCT COMPONENTS:

EFFECTS OF CHRONIC OVEREXPOSURE TO:

TOLUENE: Intentional abuse, misuse or other massive exposure to toluene  
may cause multiple organ (liver, kidney, brain cell) damage

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and/or death. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene. Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness.

Toluene may be harmful to the human fetus based on positive test results with laboratory animals.

ACETONE: Extensive human experience and animal data indicate that acetone is of low toxicity. However, ingestion of very large amounts or inhalation of extremely high vapor concentrations can cause irritation, nausea, vomiting, confusion, drowsiness, drowsiness, convulsions, and coma with possible liver and kidney injury. Based on animal data and structure-activity relationships, this product is NOT expected to cause nervous system damage.

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SECTION 4 - FIRST AID MEASURES  
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EMERGENCY FIRST AID:

EYE CONTACT: Flush at once with large amounts of lukewarm water for at least 15 minutes and get medical attention.

SKIN CONTACT: Remove from skin with soap and water. Remove drenched clothing. If irritation persists, consult a physician.

INHALATION: If affected by inhalation of vapor or spray mist, remove to fresh air. If necessary, restore breathing; in this case contact physician at once.

INGESTION: Seek medical advice.

NOTE TO PHYSICIAN:

Not Applicable.

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SECTION 5 - FIRE FIGHTING MEASURES  
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FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL:

Flammability Classification . . . . . : Class 1B  
Flashpoint . . . . . : 29.0 øF  
Explosion Level . . . . . : Low - .9  
High - 12.8

EXTINGUISHING MEDIA

Water spray, dry chemical, carbon dioxide (CO2), alcohol foam

SPECIAL FIRE-FIGHTING PROCEDURES

Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. The fire could easily be spread by the use of water in an area where the water could not be contained. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting

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the fire.

HAZARDOUS DECOMPOSITION

May form: carbon dioxide and carbon monoxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS

FLAMMABLE. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent build-up of vapors or gases to explosive concentrations.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (flame, hot surfaces and sources of electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. For large spills, use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

CLEAN-UP

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

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SECTION 7 - HANDLING AND STORAGE

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HANDLING

Keep away from heat, sparks and open flame. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state, and local codes pertaining to the storage, handling dispensing and disposal of flammable liquids.

STORAGE

Keep container tightly closed. Keep container in a well-ventilated place.

SPECIAL COMMENTS

Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing high vapor concentrations. Wash thoroughly after handling.

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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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VENTILATION

Use exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator

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approved by NIOSH for protection against chemicals in Sections (2 &/or 15).

EYE PROTECTION

Use safety eyewear with splashguards and side shields.

SKIN PROTECTION

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State . . . . . : LIQUID  
Vapor Pressure . . . . . : 33.00  
Vapor Density . . . . . : 25.00  
Boiling Point Range . . . . . : Lower - 133.0 øF  
Higher - 750.0 øF  
Specific Gravity . . . . . : .918  
Weight per Volume . . . . . : 7.6448 LB/GL  
VOC - Total (lbs./gal) . . . . . : 5.311  
Evaporation Rate . . . . . : 5.700 (n-Butyl Acetate = 1)  
Volatile by Weight . . . . . : 72.0953  
  
Volatile by Volume . . . . . : 80.2130

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY

This product is stable.

INCOMPATIBILITIES (Materials to Avoid)

This product can react violently with strong oxidizing agents and strong acids.

HAZARDOUS POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

High temperatures.

HAZARDOUS DECOMPOSITION

May form: carbon dioxide and carbon monoxide.

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SECTION 11 - TOXICOLOGICAL INFORMATION

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No data at this time.

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SECTION 12 - ECOLOGICAL INFORMATION

No data at this time.

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SECTION 13 - DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL

Discharge, treatment, or disposal may be subject to national, state or local laws. Mix with compatible chemical, which is less flammable and incinerate.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

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SECTION 14 - TRANSPORT INFORMATION

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DOT HAZARD CLASS . . . . . : 3  
DOT PACKAGING GROUP . . . . . : PG II  
DOT LABEL . . . . . : FLAMMABLE LIQUID  
DOT SHIPPING NAME . . . . . : PAINT  
DOT PLACARD . . . . . : FLAMMABLE LIQUID  
UN/NA NUMBER . . . . . : UN1263

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SECTION 15 - REGULATORY INFORMATION

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U.S. FEDERAL REGULATORY INFORMATION

TSCA SECTION 8(b) - INVENTORY STATUS:

All components of this product are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA Regulations.

SARA 313 TOXIC CHEMICALS:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

OCTADECANOIC ACID, ZINC SALT  
CAS# 557-05-1 PCT BY WT: 1.7800

TOLUENE  
CAS# 108-88-3 PCT BY WT: 14.4930

METHYL ISOBUTYL KETONE  
CAS# 108-10-1 PCT BY WT: 4.9730

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ETHYLBENZENE

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CAS# 100-41-4 PCT BY WT: .1690  
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SECTION 16 - OTHER INFORMATION  
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Prepared by . . . . . :  
Date of issue . . . . . : 11/28/2005  
Last Revision Date . . . . . : 06/12/2005  
MSDS Prepared for . . . . . :  
MSDS Last Prepared . . . . . : NONE  
HMIS Rating: Health- 3 Flammability- 3  
Reactivity- 2

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This Material Safety Data Sheet conforms to the Hazard Communication Standard, 29 CFR 1910.1200 (g) (4).

The above information pertains to this product as currently formulated and is based on the information available, as of this date. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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Abbreviations used: int.- interior; ext.- exterior; MSDS - Material Safety Data Sheet; HMIS - Hazardous Materials Information System; CAS - Chemical Abstracts Services; pct - percent; wt - weight; mm Hg - millimeters of mercury; F - Fahrenheit; ACGIH - American Conference of Governmental Industrial Hygienists; TLV - Threshold Limit Value; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; TWA - Time-Weighted Average; STEL- Short Term Exposure Limit; N/A- Not applicable IARC - International Agency for Research on Cancer; NE - Not established NTP - National Toxicological Program; CFR - Code of Federal Regulations; OSHA - Z 29CFR 1910, Subpart Z; VOC - Volatile Organic Compounds; TCC - Tag Closed Cup; LEL - Lower Explosive Limit; Mg/m3 or Mg/Cu M - milligram per cubic meter; mppcf - millions of particles per cubic foot; ppm - parts per million; NIOSH - National Institute of Occupational Safety and Health; MSHA - Mine Safety and Health Administration; CNS - Central Nervous System.

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