

Material Safety Data Sheet

Revision Date: 10-29-2012
Product Code: 45072/45075

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACRYLITHANE HS ENAMEL CLEAR
Product Code: 45072/45075
Document ID: M45072
Company: JONES-BLAIR® Company
2728 Empire Central
Dallas, TX 75235
1-214-353-1600
Revision Number: 3
Prior Version Date: 11-19-2010
Chemical Family: Acrylic Urethane Enamel
Intended use: Industrial Maintenance Coating
Emergency Contact: ChemTrec Center
Emergency Phone: 1-800-424-9300
International: 703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **WARNING!**
Flammable liquid and vapor.
Causes skin irritation.
Causes eye irritation.
Vapor harmful.
Harmful if swallowed.

Routes of Entry:

- Inhalation
- Ingestion
- Skin contact
- Eye contact

Target Organs Potentially Affected by Exposure:

- Respiratory Tract
- Skin
- Central nervous system
- Eyes
- Blood
- Kidneys
- Liver

Medical Conditions Aggravated by Exposure:

- Respiratory disorders, including but not limited to asthma and bronchitis.
- Skin disorders.
- Eye disorders.
- Liver disease
- Kidney disease
-

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Causes nose and throat irritation. Causes lung irritation.

Inhalation Toxicity: Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.

Skin Contact: Can cause moderate skin irritation.

Skin Absorption: May be harmful if absorbed through skin.

Eye Contact: Causes eye irritation.

Ingestion Toxicity: Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

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Long-Term (Chronic) Health Effects:

Carcinogenicity:	Possible cancer hazard. Contains ethylbenzene which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)
Reproductive and Developmental Toxicity:	Contains Methyl Ethyl Ketone, which in animal studies has shown to cause harm to the fetus only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure.
Mutagenicity:	Xylene has been shown to be positive in mutagenicity assays.
Inhalation:	NOTICE: 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 Effects of Exposure:	Warning: Contains Butoxy Ethyl Acetate which may cause blood disorders and kidney damage based on animal data.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Ethyl 3-ethoxypropionate	10 - 30	763-69-9
Methyl ethyl ketone	7 - 13	78-93-3
Methyl Amyl Ketone	5 - 10	110-43-0
Ethylene glycol monobutyl ether acetate	1 - 5	112-07-2
n-Butyl acetate	1 - 5	123-86-4
Xylene	1 - 5	1330-20-7
Butyl carbitol acetate	0.5 - 1.5	124-17-4
Ethylbenzene	0.1 - 1	100-41-4

IV. FIRST-AID MEASURES

Inhalation:	Remove individual to fresh air after an airborne exposure if any symptoms develop as a precautionary measure.
Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	If swallowed, do not induce vomiting. Get medical attention immediately. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

V. FIRE FIGHTING MEASURES

Flammability Summary:	Flammable liquid and vapor.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe

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Hazardous Combustion Products: distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases, Sulfur containing gases

Flash Point (°F/°C): 45 / 7
Autoignition Temperature (°F/°C): 739.4 / 393.0
Lower Flammable/Explosive Limit, % in air: 0.5
Upper Flammable/Explosive Limit, % in air: 11.5

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Isolate area. Keep unnecessary personnel away.

Methods for Clean-up: Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse.

Storage Technical Measures and Conditions: Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Explosion proof exhaust ventilation should be used.

Respiratory Protection: General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

Skin Protection: Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact. Wear chemical resistant gloves.

Control Parameters:

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Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Methyl ethyl ketone	200 ppm TWA; 590 mg/m ³ TWA	300 ppm STEL; 885 mg/m ³ STEL	200 ppm TWA; 590 mg/m ³ TWA
Methyl Amyl Ketone	50ppm; 233mg/m ³ TWA		100ppm; 465mg/m ³ (TWA)
Ethylene glycol monobutyl ether acetate	20ppm TWA		
n-Butyl acetate	150 ppm TWA; 713 mg/m ³ TWA	200 ppm STEL; 950 mg/m ³ STEL	150 ppm TWA; 710 mg/m ³ TWA
Xylene	100 ppm TWA; 434 mg/m ³ TWA	150 ppm STEL; 651 mg/m ³ STEL	100 ppm TWA; 435 mg/m ³ TWA
Ethylbenzene	100 ppm TWA; 434 mg/m ³ TWA	125 ppm STEL; 543 mg/m ³ STEL	100 ppm TWA; 435 mg/m ³ TWA

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless. Or, various colors if colorant is added. (Color additives do not affect product hazards.)
Physical State:	Liquid
Boiling Point - Low (°F):	174.0
Boiling Point - High (°F):	456.0
Evaporation Rate:	6 (n-Butyl Acetate = 1.0)
Odor:	Ketone
Vapor Density:	3.90 (air = 1)
Vapor Pressure:	77° F 12.13 kPA
VOC (g/l) (Regulatory, Calculated):	468.71
(Actual, Calculated):	468.71
Viscosity:	20 - 30 Z3
Solubility in Water:	Minimal; 1-9%
Octanol/Water Partition Coefficient:	Not Available
Volatiles, % by Volume (Calculated):	54.10
Volatiles, % by weight (Calculated):	47.67
Density:	8 - 8 lbs./Gal.

Physical and Chemical Properties are calculated target or range values for single packaged items and do not represent compliance values for multi-component (mixed) systems.

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures. Contamination.
Materials to Avoid/Chemical Incompatibility:	Oxidizing agents, Caustics (bases, alkalis), Acids
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases, Sulfur containing gases

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Methyl Amyl Ketone	110-43-0	Oral LD50 Rat 1,600 mg/kg Oral LD50 Mouse 730 mg/kg Dermal LD50 Rabbit 10,206 mg/kg Dermal LD50 Guinea pig > 16,200 mg/kg Inhalation LC50 (4h) Rat 2,000 - 4,000 ppm
Ethylene glycol monobutyl ether acetate	112-07-2	Oral LD50 Male Rat 3,000 mg/kg Oral LD50 Female Rat 2,400 mg/kg Oral LD50 Mouse 3,200 mg/kg Dermal LD50 Rabbit 1,500 mg/kg

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n-Butyl acetate	123-86-4	Inhalation LC50 (6h) Rat > 450 ppm Oral LD50 Rat 14,130 mg/kg Dermal LD50 Guinea pig 8,770 mg/kg
Xylene	1330-20-7	Inhalation LC50 (6h) Rat > 1,800 ppm Oral LD50 Rat 4,300 mg/kg
Butyl carbitol acetate	124-17-4	Oral LD50 Rat 6,960 - 11,960 mg/kg Dermal LD50 Rabbit 5,390 - 14,500 mg/kg
Ethylbenzene	100-41-4	Dermal LD50 Rat 3,500 mg/kg

Carcinogens:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethylbenzene	100-41-4	2B		

XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods: Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

XIV. TRANSPORTATION INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint
Hazard Class: 3
UN Number: UN1263
Packing Group: II
Other: This product qualifies for a limited quantity exception per CFR173.150(b)(2) and 172.102 Special Provision 149 for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

XV. REGULATORY INFORMATION

United States Federal Regulations:

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

SARA EHS Chemicals	CAS #	%
Not applicable		
CERCLA		
Methyl Ethyl Ketone	78-93-3	7 - 13
n-Butyl Acetate	123-86-4	1 - 5
Xylene (mixed isomers)	1330-20-7	1 - 5
Ethyl Benzene	100-41-4	0.1 - 1

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Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5
Xylene (mixed isomers)	1330-20-7	1 - 5
2-(2-Butoxyethoxy)ethyl acetate	124-17-4	0.5 - 1.5
Ethylbenzene	100-41-4	0.1 - 1

SARA 311/312

Health (Acute):	Y
Health (chronic):	Y
Fire (Flammable):	Y
Pressure:	N
Reactivity:	N

U. S. State Regulations:

California Prop 65 Chemicals

Cancer

	CAS #	%
Ethyl Benzene	100-41-4	0.1 - 1
Naphthalene	91-20-3	< 10 ppm
Cumene	98-82-8	< 10 ppm
Benzene	71-43-2	< 10 ppm
Lead	7439-92-1	< 10 ppb
Arsenic	7440-38-2	< 10 ppb

Reproductive

Methyl Alcohol	67-56-1	0.01 - 0.1
Toluene	108-88-3	0.01 - 0.1
Benzene	71-43-2	< 10 ppm
Lead	7439-92-1	< 10 ppb

Canadian Regulations:

CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List.

WHMIS Hazard Class: B2 D2A

XVI. ADDITIONAL INFORMATION

Prepared By: Regulatory Department

Disclaimer: This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.

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