Revision Date: 04-19-2012 Product Code: 99955

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACRYLITHANE HS ENAMEL CATALYST

Product Code: 99955 Document ID: M99955

Company: JONES-BLAIR® Company

2728 Empire Central Dallas, TX 75235 1-214-353-1600

Revision Number: 3

Prior Version Date: 08-05-2009 Chemical Family: 08-05-2009 Urethane Catalyst

Intended use: Urethane Paint Hardener/Catalyst

Emergency Contact: ChemTrec Center Emergency Phone: 1-800-424-9300 International: 703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER!

Flammable liquid and vapor. Causes skin irritation. Causes eye irritation.

Vapor and spray mist harmful. Causes nose and throat irritation. Overexposure may cause lung damage. May cause allergic skin and respiratory reaction. Effects may

be permanent.

Routes of Entry: • Skin contact

InhalationEye contact

Ingestion

Skin absorption

Target Organs Potentially Affected by Exposure:

Skin

Respiratory Tract

Central nervous system

EyesLungs

Blood

Medical Conditions
Aggravated by Exposure:

Skin allergies.

 Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapor or spray mist.

Skin allergies.

• Respiratory disorders, including but not limited to asthma and bronchitis.

Eye disorders.Lung disease

•

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Causes nose and throat irritation.

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

nausea.

Skin Contact: Causes skin irritation. Sensitizer. Avoid exposure. If sensitized, repeated exposures will

result in irritation, reddening, and rashes even for very low exposures.

Eye Contact: Causes eye irritation.

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Ingestion Toxicity: Harmful if swallowed.

Long-Term (Chronic) Health Effects:

Inhalation: Isocyanate vapors or mist at concentrations above the TLV can irritate the mucous

membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to generally reversible bronchitis, bronchial spasm and pulmonary edema. Repeated overexposure causes sensitization in some individuals resulting in asthma-like

symptoms on subsequent exposures below the TLV.

Persons with preexisting bronchial hyperactivity can respond to concentrations below the

TLV with similar symptoms as well as an asthma attack.

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.

Skin Contact: Prolonged contact may cause an allergic skin reaction.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS#
Homopolymer of Hexamethylene Diisocyanate	15 - 40	28182-81-2
Homopolymer of Isophorone Diisocyanate	15 - 40	53880-05-0
Light aromatic solvent naphtha	5 - 10	64742-95-6
n-Butyl acetate	5 - 10	123-86-4
Methyl Amyl Ketone	3 - 7	110-43-0
1,2,4-Trimethylbenzene	1 - 5	95-63-6

IV. FIRST-AID MEASURES

Inhalation: Remove individual to fresh air after an airborne exposure if any symptoms develop as a

precautionary measure. If breathing difficulty persists or occurs later, consult a physician and

have MSDS available.

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. Get medical attention if irritation develops or persists.

Ingestion: If swallowed, do not induce vomiting. Get medical attention immediately.

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 sparks, flames or other sources of ignition if

material is above the 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 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.

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Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates,

Nitrogen containing gases

Flash Point (°F/°C): 89 / 32 Autoignition Temperature (°F/°C): 739.4 / 393.0

Lower Flammable/Explosive Limit, % in air: 1.0 % Upper Flammable/Explosive Limit, % in air: 7.9 %

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. 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

Methods for Clean-up:

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. "Empty"

containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof

equipment

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: Use local exhaust ventilation or other engineering controls to minimize exposure.

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. For poorly ventilated areas or during spray application use NIOSH approved supplied air respirator unless air monitoring demonstrates vapor/mist levels below applicable limits. When monomeric isocyanate concentrations are below 0.05 ppm (10 times the 8 hour TWA exposure limit), an appropriate combination organic vapor and particulate respirator (NIOSH approved) may be appropriate. An end-of-service-life Indicator (ESLI) or a change schedule is

mandatory.

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: Avoid all skin contact by covering as much of the exposed skin area as possible with

appropriate clothing to prevent skin contact. 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 5mg/m3 TWA 10mg/m3 (15 Min.)

Homopolymer of Hexamethylene

Diisocyanate

Methyl Amyl Ketone

1,2,4-Trimethylbenzene

n-Butyl acetate 150 ppm TWA; 713

mg/m3 TWA

50ppm; 233mg/m3 TWA 25ppm; 123mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL

150 ppm TWA; 710 mg/m³

TWA

100ppm; 465mg/m³ (TWA)

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color: Colorless **Physical State:** Liquid **Boiling Point - Low (°F):** 300.0 **Boiling Point - High (°F):** 302.0

Evaporation Rate: 0.4 (n-Butyl Acetate = 1.0)

Solvent, Ester-Like Odor:

Vapor Density: 4.00 Vapor Pressure: 8.00 mbar VOC (g/l) (Regulatory, Calculated): 269.47 (Actual, Calculated): 269.47

Solubility in Water: Reacts slowly with water.

Octanol/Water Partition Coefficient: Not Available

Volatiles, % by Volume (Calculated): 31.41 Volatiles, % by weight (Calculated): 25.36

8.81 - 9.01 lbs./Gal. Densty:

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. Moisture (potentially will lead to gas formation and

warming). Contamination.

Moisture, Amines, Alcohols, Caustics (bases, alkalis), Oxidizing Materials to Avoid/Chemical Incompatibility:

agents, Acids

Polymerization: Contact with moisture, other materials that react with isocyanates

or temperatures above 350° F may cause polymerization.

Carbon dioxide, Carbon monoxide, Hydrogen cyanide, **Hazardous Decomposition Products:**

Isocyanates, Nitrogen containing gases

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data: Chemical Name CAS Number LD50/LC50 Homopolymer of Isophorone 53880-05-0 Oral LD50 Rat > 5000 mg/kg Diisocyanate Dermal LD50 Rabbit > 2000 mg/kg Inhalation LC50 (4h) Rat > 5018 mg/m³ Oral LD50 Rat 4 - 8 ml/kg Light aromatic solvent naphtha 64742-95-6 Dermal LD50 Rat > 2 g/kg Inhalation LC50 (4h) Rat 6.2 - 10.4 mg/L n-Butyl acetate 123-86-4 Oral LD50 Rat 14130 mg/kg Dermal LD50 Guinea pig 8770 mg/kg Inhalation LC50 (6h) Rat > 1800 ppm Oral LD50 Rat 1600 mg/kg Methyl Amyl Ketone 110-43-0 Oral LD50 Mouse 730 mg/kg Dermal LD50 Rabbit 10206 mg/kg Dermal LD50 Guinea pig > 16200 mg/kg

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Inhalation LC50 (4h) Rat 2000 - 4000 ppm

1,2,4-Trimethylbenzene 95-63-6 Oral LD50 Rat 5 g/kg

Inhalation LC50 (18h) Rat 18 G/M3

Carcinogens:

Chemical Name CAS Number IARC NTP OSHA

Not applicable

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 Related Material

Hazard Class: 3

UN Number: UN1263 Packing Group: III

Other: This product qualifies for a limited quantity exception per CFR173.150(b)(3) 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 # % 0.1 - 1

CERCLA

n-Butyl Acetate 123-86-4 5 - 10

SARA 313

1,2,4-Trimethylbenzene 95-63-6 1 - 5

SARA 311/312

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

U. S. State Regulations:

California Prop 65 Chemicals

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Cancer CAS # %

Not applicable **Reproductive** Not applicable

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.

Print Date: April 19, 2012