

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACRYLITHANE HS2 ENAMEL EGGSHELL WHITE P-8
Product Code: 45027
Document ID: M45027
Company: JONES-BLAIR® Company
2728 Empire Central
Dallas, TX 75235
1-214-353-1600
Revision Number: 1
Prior Version Date: None
Chemical Family: Acrylic Urethane Enamel
Intended use: Industrial Maintenance Coating
Emergency Contact: ChemTrec Center
Emergency Phone: 1-800-424-9300

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **WARNING!**
May cause allergic skin reaction.
Combustible liquid and vapor.
Causes eye irritation.
Vapor harmful.
Harmful if swallowed.

Routes of Entry:

- Inhalation
- Skin contact
- Eye contact
- Ingestion
- Skin absorption

Target Organs Potentially Affected by Exposure:

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

Medical Conditions Aggravated by Exposure:

- Respiratory disorders, including but not limited to asthma and bronchitis.
- Eye irritation when/if dust or spray mist is generated.
- Skin disorders.
- Eye disorders.
- Liver disease
- Kidney disease
-

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. 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.

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

Long-Term (Chronic) Health Effects:

- Carcinogenicity:** Contains Titanium Dioxide which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence with respect to humans and sufficient evidence in experimental animals.
Cancer hazard: Contains Crystalline Silica, which can cause cancer. Risk of cancer depends on duration and level of exposure to dust generated from sanding surfaces or spray mists.
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:** Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure. 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. Contains Hexylene Glycol which has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.
- Mutagenicity:** Xylene has been shown to be positive in mutagenicity assays.
- Inhalation:** Overexposure may cause lung damage.
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 Symptoms 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 #
Titanium dioxide	10 - 30	13463-67-7
Quartz (Silica-Crystalline)	7 - 13	14808-60-7
Talc	7 - 13	14807-96-6
Xylene	3 - 7	1330-20-7
Methyl Isobutyl Ketone	3 - 7	108-10-1
Ethyl 3-ethoxypropionate	3 - 7	763-69-9
Polyethylene	1 - 5	9002-88-4
Methyl ethyl ketone	1 - 5	78-93-3
N-Hydroxyethyl Oxazolidine	1 - 5	17026-88-9
Ethylene glycol monobutyl ether acetate	1 - 5	112-07-2
Light aromatic solvent naphtha	0.5 - 1.5	64742-95-6
n-Butyl acetate	0.5 - 1.5	123-86-4
Ethylbenzene	0.1 - 1	100-41-4

IV. FIRST-AID MEASURES

- Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
- 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:** Combustible liquid and vapor.
- Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

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.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases, Toxic fumes, Formaldehyde, Hydrocarbons

Flash Point (°F/°C):

100 / 38

Autoignition Temperature (°F/°C):

860.0 / 460.0

Lower Flammable/Explosive Limit, % in air:

0.5

Upper Flammable/Explosive Limit, % in air:

8.0 %

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.

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. Follow all protective equipment recommendations provided in Section VIII. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Use non-sparking tools when opening or closing containers. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. 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

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

- 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:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Titanium dioxide	10 mg/m ³ TWA		15 mg/m ³ TWA (total dust)
Quartz (Silica-Crystalline)	0.05 mg/m ³ TWA (respirable fraction)		see Table Z-3
Talc	20 mppcf TWA		2mg/m ³ (Respirable Dust)
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
Methyl Isobutyl Ketone	50 ppm TWA; 205 mg/m ³ TWA	75 ppm STEL; 307 mg/m ³ STEL	100 ppm TWA; 410 mg/m ³ 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
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
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:	White to off-white
Physical State:	Liquid
Boiling Point - Low:	237.0
Boiling Point - High:	380.0
Evaporation Rate (n-BA = 1):	1.6 (n-Butyl Acetate = 1.0)
Odor:	Ketone
Vapor Density:	3.7 (air = 1)
Vapor Pressure:	20.00 mbar
VOC (g/l) (Regulatory, Calculated):	387.71
(Actual, Calculated):	387.71
Viscosity:	20 - 30 Z4
Solubility in Water:	Low; 10-39%
Octanol/Water Partition Coefficient:	Not Available
Volatiles, % by Volume (Calculated):	44.94
Volatiles, % by weight (Calculated):	26.46
Wt/Gal:	12.06 - 12.46

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

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination.
Materials to Avoid/Chemical Incompatibility:	Oxidizing agents, Acids, Caustics (bases, alkalis)
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases, Toxic fumes, Carbon dioxide, Carbon monoxide, Formaldehyde, Hydrocarbons

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Titanium dioxide	13463-67-7	Oral LD50 Rat > 25 g/kg Dermal LD50 Rabbit > 10 g/kg Inhalation LC50 (4h) Rat > 6.82 mg/L
Quartz	14808-60-7	Oral LD50 Rat > 22500 mg/kg
Xylene	1330-20-7	Oral LD50 Rat 4300 mg/kg
4-Methyl-2-pentanone	108-10-1	Oral LD50 Rat 1600 - 3200 mg/kg Dermal LD50 Rabbit > 10 ml/kg Inhalation LC50 (4h) 2000 - 4000 ppm
Ethylene glycol monobutyl ether acetate	112-07-2	Oral LD50 Male Rat 3000 mg/kg Oral LD50 Female Rat 2400 mg/kg Oral LD50 Mouse 3200 mg/kg Dermal LD50 Rabbit 1500 mg/kg Inhalation LC50 (6h) Rat > 450 ppm
Light aromatic solvent naphtha	64742-95-6	Oral LD50 Rat 4 - 8 ml/kg 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
Ethylbenzene	100-41-4	Dermal LD50 Rat 3500 mg/kg

Carcinogens:

Chemical Name	CAS Number	IARC	NTP	OSHA
Titanium dioxide	13463-67-7	2B		
Quartz	14808-60-7	1	1	
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

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Combustible Liquid, n.o.s.
Hazard Class: 3
UN Number: NA1993
Packing Group: III
Other: Not Regulated for non-bulk packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150(f)).

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

Not applicable

CAS

%

CERCLA

Xylene	1330-20-7	3 - 7
Methyl Isobutyl Ketone	108-10-1	3 - 7
Methyl Ethyl Ketone	78-93-3	1 - 5
n-Butyl Acetate	123-86-4	0.5 - 1.5
Ethyl Benzene	100-41-4	0.1 - 1

SARA 313

Xylene (mixed isomers)	1330-20-7	3 - 7
Methyl Isobutyl Ketone	108-10-1	3 - 7
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5
Ethylbenzene	100-41-4	0.1 - 1

SARA 311/312

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

U. S. State Regulations:

California Prop 65 Chemicals

Cancer

	<u>CAS #</u>	<u>%</u>
Crystalline Silica	14808-60-7	7 - 13
Ethyl Benzene	100-41-4	0.1 - 1
Carbon Black	1333-86-4	0.001- 0.01
Benzene	71-43-2	< 10 ppm

Reproductive

Toluene	108-88-3	0.01 - 0.1
Benzene	71-43-2	< 10 ppm

Canadian Regulations:

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

WHMIS Hazard Class: B3 D2A

XVI. ADDITIONAL INFORMATION

Material Safety Data Sheet

Revision Date: 07-22-2009

Product Code: 45027

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:

September 24, 2009