

Safety Data Sheet

Revision Date: 06-18-2015
Product Code: 45051

1. IDENTIFICATION

Product Name	ACRYLITHANE HS2 ENAMEL #53 RVI WHITE SATIN
Product Code	45051
Document ID	G45051
Revision Number	1
Prior Version Date	None
Intended Use	Industrial Maintenance Coating
Restrictions On Use	For Industrial Use Only
Chemical Family	Acrylic Urethane Enamel
Chemical Manufacturer / Importer	JONES-BLAIR® Company, LLC 2728 Empire Central Dallas, TX 75235 1-214-353-1600
Emergency Telephone Number:	ChemTrec Center 1-800-424-9300 International: 703-527-3887

2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Hazard Pictograms



GHS Classification

Skin Sensitisation Category 1
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Carcinogenicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Flammable Liquid Category 3

Signal Word

Warning

Hazard Statements

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fume, mist, vapours or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using

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Response	<p>this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and face protection. Use personal protective equipment as required.</p> <p>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. IF exposed or if you feel unwell: Call a POISON CENTER or physician. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for extinction.</p>
Storage	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards Not Otherwise Classified (HNOC)	Not applicable

Additional Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Component</u>	<u>CAS #</u>	<u>%</u>
Titanium dioxide	13463-67-7	10 - 30
Quartz (Silica-Crystalline)	14808-60-7	10 - 30
Xylene	1330-20-7	3 - 7
4-Methyl-2-pentanone	108-10-1	3 - 7
Ethyl 3-ethoxypropionate	763-69-9	3 - 7
3-Oxazolidineethanol, 2-(1-methylethyl)-	28770-01-6	1 - 5
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5
Methyl ethyl ketone	78-93-3	1 - 5
Butyl carbitol acetate	124-17-4	0.5 - 1.5
Aluminum oxide	1344-28-1	0.5 - 1.5
Light aromatic solvent naphtha	64742-95-6	0.5 - 1.5
n-Butyl acetate	123-86-4	0.5 - 1.5
Ethylbenzene	100-41-4	0.5 - 1.5
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	0.1 - 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

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Get medical attention immediately. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Have eyes examined and tested by medical personnel.

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.

Most Important Acute Symptoms and Effects Not Available

Most Important Delayed Symptoms and Effects Not Available

Special treatment needed: No additional first aid information available

5. FIRE-FIGHTING MEASURES

Suitable 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.

Unsuitable Extinguishing Media

No data available

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.

Hazardous Combustion Products

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

Special Protective Equipment and Precautions for Fire-Fighters

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.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. 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 and Material for Containment and Cleaning Up

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. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. HANDLING AND STORAGE

Precautions for Safe Handling

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

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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.

Conditions for Safe Storage

Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

Materials to Avoid/Chemical Incompatibility

Oxidizing agents, Caustics (bases, alkalis), Chlorinated compounds, Ethylene oxide, Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH STEL</u>
Titanium dioxide	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	
Quartz (Silica-Crystalline)	see Table Z-3	0.05 mg/m ³ TWA (respirable fraction)	
Xylene	100 ppm TWA; 435 mg/m ³ TWA	100 ppm TWA; 434 mg/m ³ TWA	150 ppm STEL; 651 mg/m ³ STEL
Methyl Isobutyl Ketone	100 ppm TWA; 410 mg/m ³ TWA	50 ppm TWA; 205 mg/m ³ TWA	75 ppm STEL; 307 mg/m ³ STEL
Ethylene glycol monobutyl ether acetate		20ppm TWA	
Methyl ethyl ketone	200 ppm TWA; 590 mg/m ³ TWA	200 ppm TWA; 590 mg/m ³ TWA	300 ppm STEL; 885 mg/m ³ STEL
Aluminum oxide	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA	
n-Butyl acetate	150 ppm TWA; 710 mg/m ³ TWA	150 ppm TWA; 713 mg/m ³ TWA	200 ppm STEL; 950 mg/m ³ STEL
Ethylbenzene	100 ppm TWA; 435 mg/m ³ TWA	100 ppm TWA; 434 mg/m ³ TWA	125 ppm STEL; 543 mg/m ³ STEL

Appropriate Engineering Controls

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 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.

**Other Protective Equipment
General Hygiene Conditions**

Nitrile

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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	White
Odor	Ketone
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point (°F/°C)	No data available / No data available
Initial Boiling Point and Boiling Range	
Low (°F)	237.0
High (°F)	380.0
Flash Point (°F/°C)	74 / 23
Evaporation Rate	1.60 (n-Butyl Acetate = 1.0)
Flammability (solid, gas)	No data available
Upper Flammable/Explosive Limit	8.0
Lower Flammable/Explosive Limit	0.5
Vapor Pressure	20.00 mbar
Vapor Density	3.70 (air = 1)
Relative Density	1.000
Solubility in Water	Minimal; 1-9%
Partition coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	No data available
Decomposition Temperature:	No data available
Viscosity	20 - 30 Z4
Volatiles, % by volume	47.86
Volatiles, % by weight	28.52
Volatile Organic Chemicals (g/L)	
(Regulatory, Calculated)	418.58
(Actual, Calculated)	418.58
Density	12.15 - 12.35 lbs./Gal

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Sparks, open flame, other ignition sources, and elevated temperatures. Contamination.
Incompatible Materials	Oxidizing agents, Caustics (bases, alkalis), Chlorinated compounds, Ethylene oxide, Acids
Hazardous Decomposition Products	Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases, Toxic fumes

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation Skin contact Eye contact Ingestion Skin absorption
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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

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Inhalation Toxicity irritation. Causes lung irritation.
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. Can cause mechanical irritation if dusts are generated.

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

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.

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.

Product Toxicology Data

Oral Acute Toxicity Estimate (ATE) 23,132.34 mg/kg
Inhalation Dust/Mist Acute Toxicity Estimate (ATE) 42.00 mg/L
Inhalation Vapor Acute Toxicity Estimate (ATE) 28.54 mg/L
Dermal Acute Toxicity Estimate (ATE) 12,856.55 mg/kg

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide	Oral LD50 Rat > 25,000 mg/kg	Dermal LD50 Rabbit > 10,000 mg/kg	Inhalation LC50 (4h) Rat > 6.82 mg/L
Quartz	Oral LD50 Rat > 22,500 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Xylene	Oral LD50 Rat 3523 mg/kg	Dermal LD50 Rabbit 1100 mg/kg	Inhalation LC50 (4h) Rat 11.00 mg/L
4-Methyl-2-pentanone	Oral LD50 Rat 2080 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 8.20 - 16.40 mg/L
Ethyl 3-ethoxypropionate	Oral LD50 Male Rat > 5000 mg/kg Oral LD50 Female Rat ~ 4309 mg/kg	Dermal LD50 Rabbit ~ 4080 - 4680 mg/kg	Inhalation LC50 (6h) Male Rat > 998.00 mg/L
Ethylene glycol monobutyl ether acetate	Oral LD50 Rat 1880 mg/kg	Dermal LD50 Rabbit 1500 mg/kg	Inhalation LC50 (6h) Rat > 4.59 mg/L
Methyl ethyl ketone	Oral LD50 Rat 2737 mg/kg	Dermal LD50 Rabbit 6480	Inhalation LC50 (8h) Rat

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		mg/kg	23,500.00 mg/m ³
Butyl carbitol acetate	Oral LD50 Rat 6500 mg/kg	Dermal LD50 Rabbit 14,500 mg/kg	Inhalation LC50 (4h) Rat 72.50 mg/L
Aluminum oxide	Oral LD50 Rat > 10,000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 2.30 mg/L
Light aromatic solvent naphtha	Oral LD50 Rat 8400 mg/kg	Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 (4h) Rat 5.60 mg/L
n-Butyl acetate	Oral LD50 Rat 10,760 mg/kg	Dermal LD50 Rat 12,789 mg/kg	Inhalation LC50 (4h) Rat > 21.00 mg/L
Ethylbenzene	Oral LD50 Rat 3500 mg/kg	Dermal LD50 Rabbit 5510 mg/kg	Inhalation LC50 (4h) Rat 17.00 mg/L

Carcinogen Information

Chemical Name	IARC Carcinogen	OSHA Carcinogen	NTP Carcinogen
Titanium dioxide	2B		
Quartz	1		1
4-Methyl-2-pentanone	2B		
Ethylbenzene	2B		

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available) No data available

Mobility in soil No data available

13. DISPOSAL CONSIDERATIONS

Safe Handling of Waste Refer to other sections of this SDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT 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: 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).

Marine Pollutant: No

15. REGULATORY INFORMATION

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

Regulated Components

SARA EHS Chemicals

Not applicable

CAS # %

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Xylene (mixed isomers)	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	0.5 - 1.5

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
2-(2-Butoxyethoxy)ethyl acetate	124-17-4	0.5 - 1.5
Aluminum oxide	1344-28-1	0.5 - 1.5
Ethylbenzene	100-41-4	0.5 - 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

Cancer	CAS #	%
Titanium dioxide	13463-67-7	10 - 30
Crystalline Silica	14808-60-7	10 - 30
Ethyl Benzene	100-41-4	0.5 - 1.5
Naphthalene	91-20-3	0.01 - 0.1
Cumene	98-82-8	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
Reproductive		
Methyl Isobutyl Ketone	108-10-1	3 - 7
Toluene	108-88-3	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01

Canadian Regulations:

CEPA DSL:	The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS Hazard Class:	B2 D2A

16. OTHER INFORMATION

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Disclaimer	This SDS 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.