Material Safety Data Sheet

Revision Date: 04-19-2012
Product Code: 33304

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**CHEM-O-PON NON-CHROME PRIMER**
Product Code:	33304
Document ID:	M33304
Company:	JONES-BLAIR® Company 2728 Empire Central Dallas, TX 75235 1-214-353-1600
Revision Number:	2
Prior Version Date:	07-23-2009
Chemical Family:	Epoxy Coating
Intended use:	Industrial Maintenance Primer
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.
May be harmful if absorbed through skin.

Routes of Entry:

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

Target Organs Potentially Affected by Exposure:

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

Medical Conditions Aggravated by Exposure:

- Respiratory disorders, including but not limited to asthma and bronchitis.
- Skin disorders.
- Eye disorders.
- Liver disease
- Kidney disease
- Eye irritation when/if dust or spray mist is generated.
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Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Causes lung irritation. Causes nose and throat irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
Inhalation Toxicity:	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
Skin Contact:	Can cause moderate skin irritation. May cause allergic skin reaction.
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.

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 butoxy ethanol which has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

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.
Overexposure may cause lung damage.
Skin Contact: Prolonged contact may cause an allergic skin reaction.
Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Polymer of Epoxy Resin and bisphenol A	10 - 30	25036-25-3
Titanium dioxide	10 - 30	13463-67-7
Calcium Metasilicate (Particles Not Otherwise Classified)	7 - 13	13983-17-0
Xylene	3 - 7	1330-20-7
Barium Sulfate	3 - 7	7727-43-7
Methyl Isobutyl Ketone	3 - 7	108-10-1
Cristobalite (Silica-Crystalline)	3 - 7	14464-46-1
Methyl ethyl ketone	1 - 5	78-93-3
Glycidyl Ether of 3-Alkyl Phenol	1 - 5	171263-25-5
Butoxy Ethanol	1 - 5	111-76-2
Zinc Phosphate (Nuisance Dust)	1 - 5	7779-90-0
n-Butyl alcohol	1 - 5	71-36-3
Talc	1 - 5	14807-96-6
Ethylbenzene	0.5 - 1.5	100-41-4
Quartz (Silica-Crystalline)	0.1 - 1	14808-60-7

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. Thoroughly wash or discard clothing and shoes before reuse.
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 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. Will not burn, no special instructions available. Use methods appropriate for surrounding materials. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases, Toxic fumes, Hydrocarbons

Flash Point (°F/°C):	51 / 11
Autoignition Temperature (°F/°C):	860.0 / 460.0
Lower Flammable/Explosive Limit, % in air:	1.1
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.

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:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Titanium dioxide	10 mg/m³ TWA		15 mg/m³ TWA (total dust)
Calcium Metasilicate (Particles Not Otherwise Classified)			50 mppcf (15mg/m³) TWA Total Dust; 15 mppcf (5mg/m³) TWA Respirable fraction
Xylene	100 ppm TWA; 434 mg/m³ TWA	150 ppm STEL; 651 mg/m3 STEL	100 ppm TWA; 435 mg/m³ TWA
Barium Sulfate	10 mg/m³ TWA (total); 5mg/m³ (respirable)		15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)
Methyl Isobutyl Ketone	50 ppm TWA; 205 mg/m3 TWA	75 ppm STEL; 307 mg/m3 STEL	100 ppm TWA; 410 mg/m3 TWA
Cristobalite (Silica-Crystalline)	0.05 mg/m3 TWA (this TLV is for the respirable fraction of dust)		see Table Z-3
Methyl ethyl ketone	200 ppm TWA; 590 mg/m³ TWA	300 ppm STEL; 885 mg/m³ STEL	200 ppm TWA; 590 mg/m³ TWA
Butoxy Ethanol	20 ppm TWA; 97 mg/m³ TWA		50 ppm TWA; 240 mg/m³ TWA
Zinc Phosphate (Nuisance Dust)			5 mg/m³ (Resipirable Fraction) 15 mg/m³ (Total Dust)
n-Butyl alcohol	20 ppm TWA; 61 mg/m3 TWA		100 ppm TWA; 300 mg/m3 TWA
Talc	20 mppcf TWA		2mg/m³ (Respirable Dust)
Ethylbenzene	100 ppm TWA; 434 mg/m³ TWA	125 ppm STEL; 543 mg/m³ STEL	100 ppm TWA; 435 mg/m³ TWA
Quartz (Silica-Crystalline)	0.05 mg/m³ TWA (respirable fraction)		see Table Z-3

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color:	White
Physical State:	Liquid
Boiling Point - Low (°F):	237.0
Boiling Point - High (°F):	286.0
Evaporation Rate:	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):	366.7
(Actual, Calculated):	366.7
Viscosity:	20 - 30 Z4
Solubility in Water:	Low; 10-39%
Freezing Point (°F):	> 50 °F
Octanol/Water Partition Coefficient:	Not Available
Volatiles, % by Volume (Calculated)**:**	43.88
Volatiles, % by weight (Calculated)**:**	25.22
Densty:	11.94 - 12.34 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), Alkaline earth metals, Acids
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases, Toxic fumes, Hydrocarbons

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Polymer of Epoxy Resin and bisphenol A	25036-25-3	Oral LD50 > 2000 mg/kg Dermal LD50 Rat > 2000 mg/kg
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
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
Ethylbenzene	100-41-4	Dermal LD50 Rat 3500 mg/kg
Quartz	14808-60-7	Oral LD50 Rat > 22500 mg/kg

Carcinogens:

Chemical Name	CAS Number	IARC	NTP	OSHA
Titanium dioxide	13463-67-7	2B		

Cristobalite (Silica-Crystalline)	14464-46-1	1	1
Talc	14807-96-6	2B	
Ethylbenzene	100-41-4	2B	
Quartz	14808-60-7	1	1

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).

IATA Air Shipping Name: Paint
IATA Hazard Class: 3
IATA UN Number: UN1263
IATA Packing Group: II

IMO Shipping Name: Paint
IMO Hazard Class: 3
IMO UN Number: UN1263
IMO Packing Group: II

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 #**	**%**
Formaldehyde	50-00-0	0.01 - 0.1
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 alcohol	71-36-3	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 mono-n-butyl ether	111-76-2	1 - 5
Trizinc diphosphate	7779-90-0	1 - 5
n-Butyl alcohol	71-36-3	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
Cristobalite (Silica, Crystalline (Respirable Size))	14464-46-1	3 - 7
Ethyl Benzene	100-41-4	0.5 - 1.5
Crystalline Silica	14808-60-7	0.1 - 1
Formaldehyde	50-00-0	0.01 - 0.1
Carbon Black	1333-86-4	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
Lead	7439-92-1	< 10 ppm
Reproductive		
Toluene	108-88-3	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
Lead	7439-92-1	< 10 ppm

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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