

# SAFETY DATA SHEET

Product name: LATEX 100

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## 1. IDENTIFICATION

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Product name: LATEX 100

Recommended use of the chemical and restrictions on use

Identified uses: This product is used in coatings, textiles, binders and adhesives.

COMPANY IDENTIFICATION

**ZIRCON INDUSTRIES INC.**

4920 Commerce Pky #9  
CLEVELAND, OHIO 44128  
(216) 595-0200

EMERGENCY TELEPHONE NUMBER

Local Emergency Contact:

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## 2. HAZARDS IDENTIFICATION

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Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

no data available

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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This product is a mixture.

Component	CASRN	Concentration
Vinyl acetate/acrylic copolymer	Not Hazardous	>= 39.0 - <= 43.0 %
vinyl acetate	108-05-4	<= 900.0 PPM
Acetaldehyde	75-07-0	<= 950.0 PPM
Individual acrylic monomers	Not Required	<= 0.1 %
Aqua ammonia	1336-21-6	< 1.0 %

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Formaldehyde	50-00-0	<= 0.1 %
Water	7732-18-5	>= 57.0 - <= 61.0 %

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#### **4. FIRST AID MEASURES**

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**Description of first aid measures**

**Inhalation:** Move to fresh air.

**Skin contact:** Wash with water and soap as a precaution. If skin irritation persists, call a physician.

**Eye contact:** Rinse with plenty of water. If eye irritation persists, consult a specialist.

**Ingestion:** Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

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#### **5. FIREFIGHTING MEASURES**

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**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** no data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** no data available

**Unusual Fire and Explosion Hazards:** Material can splatter above 100C/212F. Dried product can burn.

**Advice for firefighters**

**Fire Fighting Procedures:** no data available

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

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#### **6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

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**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods and materials for containment and cleaning up:** Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

**Conditions for safe storage:** Keep from freezing - product stability may be affected. **STIR WELL BEFORE USE.**

### Storage stability

**Storage temperature:** 1 - 49 °C (34 - 120 °F)

**Other data:** Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required. This material contains residual levels of vinyl acetate monomer and acetaldehyde. Lack of adequate ventilation may result in airborne levels of vinyl acetate monomer and/or acetaldehyde above established exposure limits in the workplace. Monitoring the workplace to determine actual vinyl acetate/acetaldehyde levels is recommended.

**Other data:** NOTE: Due to minimal levels of microbiocide, this material may degrade and hazardous fumes may develop. Therefore, appropriate ventilation is required when containers are opened.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
vinyl acetate	Rohm and Haas	TWA	5 ppm
	Rohm and Haas	STEL	15 ppm
	ACGIH	TWA	10 ppm
	ACGIH	STEL	15 ppm
Acetaldehyde	Rohm and Haas	TLV-C	10 ppm
	ACGIH	C	25 ppm
	OSHA Z-1	TWA	360 mg/m3 200 ppm
Aqua ammonia	Rohm and Haas	TWA	10 ppm, As Ammonia
	OSHA Z-1	TWA	35 mg/m3 50 ppm
	ACGIH	TWA	25 ppm, Ammonia
	ACGIH	STEL	35 ppm, Ammonia
Formaldehyde	Rohm and Haas	TLV-C	0.3 ppm
	ACGIH	C	0.3 ppm
	OSHA CARC	PEL	0.75 ppm
	ACGIH	C	DSEN, RSEN
	OSHA CARC	STEL	2 ppm
	OSHA Z-1		Absorbed via skin
	OSHA Z-2		

### Exposure controls

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**Engineering controls:** Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

**Individual protection measures**

**Eye/face protection:** Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

**Skin protection**

**Hand protection:** The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves

**Respiratory protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Above the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full-facepiece, airline respirator in the pressure demand mode with emergency escape provision.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

<b>Physical state</b>	liquid Milky
<b>Color</b>	white
<b>Odor</b>	no data available
<b>Odor Threshold</b>	no data available
<b>pH</b>	5.0 - 9.5
<b>Melting point/range</b>	no data available
<b>Freezing point</b>	no data available
<b>Boiling point (760 mmHg)</b>	100.00 °C ( 212.00 °F) Water
<b>Flash point</b>	Noncombustible
<b>Evaporation Rate (Butyl Acetate = 1)</b>	<1.00 Water
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Lower explosion limit</b>	Not Applicable
<b>Upper explosion limit</b>	Not Applicable
<b>Vapor Pressure</b>	22.666667 mmHg at 20.00 °C (68.00 °F) Water
<b>Relative Vapor Density (air = 1)</b>	<1.0000 Water
<b>Relative Density (water = 1)</b>	1.0000 - 1.2000
<b>Water solubility</b>	Dilutable
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	Not Applicable
<b>Decomposition temperature</b>	no data available

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<b>Dynamic Viscosity</b>	1,500.000 mPa.s maximum
<b>Kinematic Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available
<b>Molecular weight</b>	no data available
<b>Percent volatility</b>	57.000 - 61.000 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** no data available

**Chemical stability:** no data available

**Possibility of hazardous reactions:** None known.  
Product will not undergo polymerization.  
Stable

**Conditions to avoid:** no data available

**Incompatible materials:** There are no known materials which are incompatible with this product.

**Hazardous decomposition products:** Thermal decomposition may yield the following: acetaldehyde  
acrylic monomers vinyl acetate monomer

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

### **Acute toxicity**

#### **Acute oral toxicity**

LD50, Rat, > 5,000 mg/kg

#### **Acute dermal toxicity**

LD50, Rabbit, > 5,000 mg/kg

#### **Acute inhalation toxicity**

Product test data not available.

### **Skin corrosion/irritation**

slight to moderate skin irritation

### **Serious eye damage/eye irritation**

slight to moderate irritation

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**Sensitization**

Product test data not available.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Product test data not available.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Vinyl acetate vapors were shown to cause tumors of the respiratory tract of laboratory rats and mice in lifetime inhalation studies at high exposure levels (2112 mg/m<sup>3</sup>).

**Carcinogenicity**

Product test data not available.

**Teratogenicity**

Product test data not available.

**Reproductive toxicity**

Product test data not available.

**Mutagenicity**

Product test data not available.

**Aspiration Hazard**

Product test data not available.

**Additional information**

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**vinyl acetate**

**Acute inhalation toxicity**

Vapor concentrations are attainable which could be hazardous on single exposure. Vapor may cause irritation of the upper respiratory tract (nose and throat).

LC50, Rat, 4 Hour, vapour, 14.084 - 15.810 mg/l

**Sensitization**

Skin contact may cause an allergic skin reaction in a small proportion of individuals. Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause respiratory irritation.

Route of Exposure: Inhalation

Target Organs: Respiratory Tract

**Carcinogenicity**

Vinyl acetate has caused cancer in some laboratory animals exposed to high vapor levels in long-term studies; tumors and other respiratory tract lesions occurred secondarily to chronic irritation. Vinyl acetate has caused tumors of the gastrointestinal tract in a drinking water

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study. Tumors occurred only at high doses, and mechanistic studies indicate that they occurred secondarily to irritation.

**Teratogenicity**

Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

In animal studies, did not interfere with reproduction.

**Mutagenicity**

In vitro genetic toxicity studies were negative in some cases and positive in other cases.

Animal genetic toxicity studies were negative.

**Aspiration Hazard**

Based on available information, aspiration hazard could not be determined.

**Acetaldehyde**

**Acute inhalation toxicity**

Easily attainable vapor concentrations may cause unconsciousness and death. Excessive exposure may cause severe irritation to upper respiratory tract (nose and throat) and lungs. Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. May cause nausea and vomiting.

LC50, Rat, 4 Hour, vapour, 24 mg/l

**Sensitization**

For skin sensitization:  
No relevant data found.

For respiratory sensitization:  
No relevant information found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause respiratory irritation.  
Route of Exposure: Inhalation  
Target Organs: Respiratory Tract

**Carcinogenicity**

Has caused cancer in laboratory animals.

**Teratogenicity**

No relevant data found.

**Reproductive toxicity**

No relevant data found.

**Mutagenicity**

In vitro genetic toxicity studies were negative in some cases and positive in other cases.  
Animal genetic toxicity studies were negative in some cases and positive in other cases.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

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**Aqua ammonia**

**Acute inhalation toxicity**

LC50, Rat, male, 1 Hour, dust/mist, 9.850 mg/l

**Sensitization**

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

**Carcinogenicity**

Did not cause cancer in laboratory animals.

**Teratogenicity**

Available data are inadequate for evaluation of potential to cause fetotoxicity.

**Reproductive toxicity**

Available data are inadequate to determine effects on reproduction.

**Mutagenicity**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**Formaldehyde**

**Acute inhalation toxicity**

LC50, Rat, 4 Hour, vapour, 0.578 mg/l

**Sensitization**

Has caused allergic skin reactions in humans.

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Carcinogenicity**

Has caused cancer in humans. Has caused cancer in laboratory animals.

**Teratogenicity**

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

**Reproductive toxicity**

No data available.

**Mutagenicity**

In vitro genetic toxicity studies were negative in some cases and positive in other cases.

Animal genetic toxicity studies were negative in some cases and positive in other cases.



**Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

<b>Carcinogenicity Component</b>	<b>List</b>	<b>Classification</b>
<b>vinyl acetate</b>	IARC	Group 2B: Possibly carcinogenic to humans
	ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans.
<b>Acetaldehyde</b>	IARC	Group 2B: Possibly carcinogenic to humans
	US NTP	Reasonably anticipated to be a human carcinogen
	ACGIH	A2: Suspected human carcinogen
<b>Formaldehyde</b>	IARC	Group 1: Carcinogenic to humans
	OSHA CARC	OSHA specifically regulated carcinogen
	ACGIH	A2: Suspected human carcinogen

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## **12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**General Information**

There is no data available for this product.

**Toxicity**

**vinyl acetate**

**Acute toxicity to fish**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow), 96 Hour, 19 - 28 mg/l, Method Not Specified.

**Acute toxicity to aquatic invertebrates**

EC50, Daphnia magna (Water flea), semi-static test, 48 Hour, 12.6 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 12.7 mg/l, OECD Test Guideline 201 or Equivalent

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth inhibition (cell density reduction), 8.81 mg/l, OECD Test Guideline 201 or Equivalent

**Toxicity to bacteria**

EC50, Bacteria, 16 Hour, 380 mg/l

**Acetaldehyde**

**Acute toxicity to fish**

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 30.8 - 37.2 mg/l

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**Acute toxicity to aquatic invertebrates**

EC50, Daphnia magna (Water flea), 48 Hour, 48.3 mg/l

**Acute toxicity to algae/aquatic plants**

EC50, Freshwater algae (Anabaena fols-aquae), 240 Hour, 4,528 - 16,244 mg/l

**Toxicity to bacteria**

EC50, Photobacterium phosphoreum, 0.08 Hour, 342 mg/l

**Aqua ammonia**

**Acute toxicity to fish**

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Fish., 96 Hour, 0.89 mg/l

**Acute toxicity to aquatic invertebrates**

LC50, Daphnia magna (Water flea), static test, 48 Hour, 101 mg/l

**Formaldehyde**

**Acute toxicity to fish**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

LC50, Bluegill sunfish (Lepomis macrochirus), flow-through test, 96 Hour, 50 mg/l

LC50, striped bass (Morone saxatilis), static test, 96 Hour, 6.7 mg/l

LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 44 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, Daphnia pulex (Water flea), static test, 48 Hour, 5.8 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

EC50, Desmodesmus subspicatus (green algae), Static, 72 Hour, Growth rate, 4.89 mg/l, OECD Test Guideline 201 or Equivalent

**Toxicity to bacteria**

EC50, activated sludge, 3 Hour, 19.6 mg/l, OECD 209 Test

**Chronic toxicity to fish**

NOEC, Oryzias latipes (Orange-red killifish), flow-through, 28 d, mortality,  $\geq$  48 mg/l

**Persistence and degradability**

**vinyl acetate**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**10-day Window:** Not applicable

**Biodegradation:** 82 - 98 %

**Exposure time:** 14 d

**Method:** OECD Test Guideline 301C or Equivalent

**Theoretical Oxygen Demand:** 1.67 mg/mg

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**Chemical Oxygen Demand: 1.53 - 1.77 mg/mg**

**Biological oxygen demand (BOD)**

<b>Incubation Time</b>	<b>BOD</b>
5 d	34 - 61 %
10 d	34 - 74 %
20 d	32 - 95 %

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitizer:** OH radicals

**Atmospheric half-life:** 9.7 - 12 Hour

**Method:** Estimated.

**Acetaldehyde**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**10-day Window:** Not applicable

**Biodegradation:** 80 %

**Exposure time:** 14 d

**Method:** OECD Test Guideline 301C or Equivalent

**Theoretical Oxygen Demand:** 1.82 mg/mg

**Chemical Oxygen Demand:** 0.63 mg/mg Dichromate  
0.14 mg/mg

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitizer:** OH radicals

**Atmospheric half-life:** 7.6 Hour

**Method:** Estimated.

**Ammonia**

**Biodegradability:** Material is expected to be readily biodegradable. Biodegradation may occur under aerobic conditions (in the presence of oxygen).

**Theoretical Oxygen Demand:** 3.76 mg/mg Estimated.

**Formaldehyde**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**10-day Window:** Pass

**Biodegradation:** 90 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301D or Equivalent

**Theoretical Oxygen Demand:** 1.07 mg/mg

**Biological oxygen demand (BOD)**

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<b>Incubation Time</b>	<b>BOD</b>
5 d	> 100 %
10 d	> 100 %
20 d	> 100 %

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitizer:** OH radicals

**Atmospheric half-life:** 15.8 Hour

**Method:** Estimated.

**Bioaccumulative potential**

**vinyl acetate**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** 0.73 Measured

**Bioconcentration factor (BCF):** 3.16 Fish. Estimated.

**Acetaldehyde**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -0.34 Measured

**Aqua ammonia**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

**Formaldehyde**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** 0.35 Method Not Specified.

**Bioconcentration factor (BCF):** 3 Fish. Estimated.

**Mobility in soil**

**vinyl acetate**

Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient(Koc):** 24 Estimated.

**Acetaldehyde**

Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient(Koc):** 1.5 Estimated.

**Formaldehyde**

Potential for mobility in soil is very high (Koc between 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Partition coefficient(Koc):** 1 Estimated.

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### **13. DISPOSAL CONSIDERATIONS**

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**Disposal methods:** Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

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### **14. TRANSPORT INFORMATION**

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**DOT**

Not regulated for transport

**Classification for SEA transport (IMO-IMDG):**

**Transport in bulk  
according to Annex I or II  
of MARPOL 73/78 and the  
IBC or IGC Code**

Not regulated for transport  
Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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### **15. REGULATORY INFORMATION**

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**OSHA Hazard Communication Standard**

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103**

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

**Pennsylvania**

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

**California (Proposition 65)**

This product may contain a component or components known to the State of California to cause cancer and/or reproductive harm.

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**16. OTHER INFORMATION**

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**Hazard Rating System**

**HMIS**

Health	Flammability	Physical Hazard
2	0	0

**Revision**

Identification Number: 101101737 / 0001 / Issue Date: 05/28/2015 / Version: 2.1

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

Absorbed via skin	Absorbed via skin
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
C	Ceiling limit
DSEN, RSEN	Skin and respiratory sensitizer
OSHA CARC	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2	USA. Occupational Exposure Limits (OSHA) - Table Z-2
PEL	Permissible exposure limit (PEL)
Rohm and Haas	Rohm and Haas OEL's
STEL	Short term exposure limit
TLV-C	Ceiling Limit Value
TWA	Time weighted average

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

**Zircon Industries:**

urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this

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(M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.