



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Epoxy Primer 1:1 Black  
**Other means of identification**  
**Product code** IMP4710  
**Recommended use** Epoxy Primer  
**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

**Company name** REFINISH DISTRIBUTORS ALLIANCE, INC.  
**Address** 331 Calhoun Circle  
Castle Rock, CO 80104  
**Telephone** 303-345-7166  
  
**Website** [www.rda-impact.com](http://www.rda-impact.com)

EMERGENCY 24 Hrs. 800-424-9300 ChemTrec

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



**Signal word** Danger

**Hazard statement** Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

## Precautionary statement

### 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/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

### Response

If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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 advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### Supplemental information

53.85% of the mixture consists of component(s) of unknown acute oral toxicity. 83.12% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83.12% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Calcium Carbonate		1317-65-3	10 - < 30
Barium Sulfate		7727-43-7	10 - < 20
Isobutyl Acetate		110-19-0	10 - < 20
Methyl Ethyl Ketone		78-93-3	10 - < 20
Isopropanol		67-63-0	5 - < 10
Carbon Black		1333-86-4	0 - < 5
Crystalline Quartz Regulatory		14808-60-7	0 < 5
Ester Solvent EEP		763-69-9	0 - < 5
Ethylbenzene		100-41-4	0 < 5
Glycol Ether PM Acetate		108-65-6	0 - < 5
Isobutyl Alcohol		78-83-1	0 < 5
Magnesium oxide		1309-48-4	0 < 5
Maleic Anhydride		108-31-6	0 < 5
N-Butyl Alcohol		71-36-3	0 < 5
Silica, amorphous, precipitated and gel		112926-00-8	0 < 5
Toluene		108-88-3	0 - < 5
Vinyl Acetate		108-05-4	0 < 5
Vinyl Chloride (Chloroethylene)		75-01-4	0 - < 5
Xylene		1330-20-7	0 - < 5
Other components below reportable levels			10 - < 20

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
<b>Most important symptoms/effects, acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	STEL	5 ppm
	TWA	1 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Barium Sulfate (CAS 7727-43-7)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
Calcium Carbonate (CAS 1317-65-3)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
Isobutyl Acetate (CAS 110-19-0)	PEL	100 ppm 700 mg/m3	
Isobutyl Alcohol (CAS 78-83-1)	PEL	150 ppm 300 mg/m3	
Isopropanol (CAS 67-63-0)	PEL	100 ppm 980 mg/m3	
Magnesium oxide (CAS 1309-48-4)	PEL	400 ppm 15 mg/m3	Total particulate.
Maleic Anhydride (CAS 108-31-6)	PEL	1 mg/m3	
Methyl Ethyl Ketone (CAS 78-93-3)	PEL	0.25 ppm 590 mg/m3	
N-Butyl Alcohol (CAS 71-36-3)	PEL	200 ppm 300 mg/m3	
Xylene (CAS 1330-20-7)	PEL	100 ppm 435 mg/m3 100 ppm	

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Crystalline Quartz Regulatory (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3 2.4 mppcf	Respirable. Respirable.
Silica, amorphous, precipitated and gel (CAS 112926-00-8)	TWA	0.8 mg/m3  20 mppcf	

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Barium Sulfate (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Crystalline Quartz Regulatory (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Isobutyl Acetate (CAS 110-19-0)	TWA	150 ppm	
Isobutyl Alcohol (CAS 78-83-1)	TWA	50 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	

**US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
	TWA	200 ppm	
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Maleic Anhydride (CAS 108-31-6)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
Methyl Ethyl Ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
N-Butyl Alcohol (CAS 71-36-3)	TWA	20 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Vinyl Acetate (CAS 108-05-4)	STEL	15 ppm	
	TWA	10 ppm	
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	TWA	1 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Barium Sulfate (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Crystalline Quartz Regulatory (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Isobutyl Acetate (CAS 110-19-0)	TWA	700 mg/m3	
		150 ppm	
Isobutyl Alcohol (CAS 78-83-1)	TWA	150 mg/m3	
		50 ppm	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
Maleic Anhydride (CAS 108-31-6)	TWA	1 mg/m3	
		0.25 ppm	
Methyl Ethyl Ketone (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	
		200 ppm	
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	150 mg/m3	
		50 ppm	
Silica, amorphous, precipitated and gel (CAS 112926-00-8)	TWA	6 mg/m3	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Toluene (CAS 108-88-3)	STEL	560 mg/m <sup>3</sup> 150 ppm	
	TWA	375 mg/m <sup>3</sup> 100 ppm	
Vinyl Acetate (CAS 108-05-4)	Ceiling	15 mg/m <sup>3</sup>	
		4 ppm	

**US. Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
Glycol Ether PM Acetate (CAS 108-65-6)	TWA	50 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
Methyl Ethyl Ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Glycol Ether PM Acetate (CAS 108-65-6)	Can be absorbed through the skin.
N-Butyl Alcohol (CAS 71-36-3)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

N-Butyl Alcohol (CAS 71-36-3)	Skin designation applies.
Toluene (CAS 108-88-3)	Skin designation applies.

**US - Tennessee OELs: Skin designation**

N-Butyl Alcohol (CAS 71-36-3)	Can be absorbed through the skin.
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**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

N-Butyl Alcohol (CAS 71-36-3)	Can be absorbed through the skin.
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**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
<b>Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Color** Black

**Odor** Solvent.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -145.84 °F (-98.8 °C) estimated

**Initial boiling point and boiling range** 175.26 °F (79.59 °C) estimated

**Flash point** 15.8 °F (-9.0 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 1.8 % estimated

**Flammability limit - upper (%)** 12 % estimated

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 48.78 hPa estimated

**Vapor density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 750.2 °F (399 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Density** 1.58 g/cm<sup>3</sup> estimated

**Flammability class** Flammable IB estimated

**Percent volatile** 43.16 w/w % By Weight

62.06 v/v % By Volume

**Specific gravity** 1.58 estimated

**VOC (Weight %)**

**10. Stability and reactivity**

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.



<b>Incompatible materials</b>	Strong acids. Acids. Strong oxidizing agents. Nitrates. Aluminum. Halogens. Phosphorus. Ammonia. Amines. Isocyanates. Fluorine. Caustics. Chlorine.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. Narcotic effects.

Components	Species	Test Results
Carbon Black (CAS 1333-86-4)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 8000 mg/kg
Ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
Isobutyl Acetate (CAS 110-19-0)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rabbit	4.8 g/kg
Isobutyl Alcohol (CAS 78-83-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3392 mg/kg
<b>Inhalation</b>		
LC50	Rat	8000 ppm, 4 Hours
LD50	Guinea pig	19.9 mg/l
	Rabbit	26.25 mg/l
	Rat	19.2 mg/l
<b>Oral</b>		
LD50	Mouse	3500 mg/kg
	Rat	2.46 g/kg
Isopropanol (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12800 mg/kg
<b>Oral</b>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg

Components	Species	Test Results
	Rat	4.7 g/kg
Maleic Anhydride (CAS 108-31-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Albino rabbit	> 398 mg/kg
<b>Oral</b>		
LD50	Albino Sprague-Dawley rat	900 mg/kg
	Mouse	465 mg/kg
Methyl Ethyl Ketone (CAS 78-93-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 8000 mg/kg
<b>Inhalation</b>		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
N-Butyl Alcohol (CAS 71-36-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3400 mg/kg
<b>Inhalation</b>		
LC50	Rat	8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	790 mg/kg
Silica, amorphous, precipitated and gel (CAS 112926-00-8)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Mouse	> 15000 mg/kg
	Rat	> 22500 mg/kg
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12124 mg/kg 14.1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	5320 ppm, 8 Hours 400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	2.6 g/kg
Vinyl Acetate (CAS 108-05-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	2335 mg/kg

Components	Species	Test Results
<b>Inhalation</b>		
LC50	Guinea pig	6215 ppm, 4 Hours
	Mouse	1550 ppm, 4 Hours
	Rabbit	2500 ppm, 4 Hours
	Rat	3680 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	1613 mg/kg
	Rat	2920 mg/kg
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 43 g/kg
<b>Inhalation</b>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**ACGIH Sensitization**

Maleic Anhydride (CAS 108-31-6)

Dermal sensitization  
Respiratory sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon Black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Crystalline Quartz Regulatory (CAS 14808-60-7)	1 Carcinogenic to humans.
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Silica, amorphous, precipitated and gel (CAS 112926-00-8)	3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Vinyl Acetate (CAS 108-05-4)	2B Possibly carcinogenic to humans.
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	1 Carcinogenic to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Vinyl Chloride (Chloroethylene (CAS 75-01-4) Cancer

**US. National Toxicology Program (NTP) Report on Carcinogens**

Crystalline Quartz Regulatory (CAS 14808-60-7)	Known To Be Human Carcinogen.
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	Known To Be Human Carcinogen.

**Reproductive toxicity** Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure** May cause drowsiness and dizziness.

**Specific target organ toxicity - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects**

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological information****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
Barium Sulfate (CAS 7727-43-7)			
<b>Aquatic</b>			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
Ethylbenzene (CAS 100-41-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Isobutyl Alcohol (CAS 78-83-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia pulex)	950 - 1200 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	1000 - 3000 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Maleic Anhydride (CAS 108-31-6)			
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish (Gambusia affinis)	230 mg/l, 96 hours
Methyl Ethyl Ketone (CAS 78-93-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours
N-Butyl Alcohol (CAS 71-36-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	1897 - 2072 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	100 - 500 mg/l, 96 hours
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
Vinyl Acetate (CAS 108-05-4)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	15.04 - 21.54 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**

No data is available on the degradability of this product.

**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

Ethylbenzene	3.15
Isobutyl Acetate	1.78
Isobutyl Alcohol	0.76
Isopropanol	0.05
Methyl Ethyl Ketone	0.29

**Partition coefficient n-octanol / water (log Kow)**

N-Butyl Alcohol	0.88
Toluene	2.73
Vinyl Acetate	0.73
Xylene	3.12 - 3.2

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information**

The following transportation information is provided based on the manufacturer's interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking, and labeling prior to offering for transport.

**DOT**

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	Paint related material including paint thinning, drying, removing, or reducing compound
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	149, B52, IB2, T4, TP1, TP8, TP28
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	173
<b>Packaging bulk</b>	242

**IATA**

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	Paint related material (including paint thinning or reducing compounds)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

**IMDG**

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-

**Packing group** II

**Environmental hazards**

**Marine pollutant** No.

**EmS** F-E, S-E

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT**



**IATA; IMDG**



## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Barium Sulfate (CAS 7727-43-7)	Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Isobutyl Acetate (CAS 110-19-0)	Listed.
Isobutyl Alcohol (CAS 78-83-1)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Maleic Anhydride (CAS 108-31-6)	Listed.
Methyl Ethyl Ketone (CAS 78-93-3)	Listed.
N-Butyl Alcohol (CAS 71-36-3)	Listed.
Toluene (CAS 108-88-3)	Listed.
Vinyl Acetate (CAS 108-05-4)	Listed.
Vinyl Chloride (Chloroethylene (CAS 75-01-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.

### SARA 304 Emergency release notification

Vinyl Acetate (CAS 108-05-4) 5000 LBS

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Vinyl Chloride (Chloroethylene (CAS 75-01-4) Cancer  
Central nervous system  
Liver  
Blood  
Flammability

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Vinyl Acetate	108-05-4	5000	1000 lbs		

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Isopropanol	67-63-0	5 - < 10
Ethylbenzene	100-41-4	0 < 5
Maleic Anhydride	108-31-6	0 < 5
N-Butyl Alcohol	71-36-3	0 < 5
Toluene	108-88-3	0 - < 5
Vinyl Acetate	108-05-4	0 < 5
Vinyl Chloride (Chloroethylene)	75-01-4	0 - < 5
Xylene	1330-20-7	0 - < 5

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethylbenzene (CAS 100-41-4)  
 Maleic Anhydride (CAS 108-31-6)  
 Toluene (CAS 108-88-3)  
 Vinyl Acetate (CAS 108-05-4)  
 Vinyl Chloride (Chloroethylene (CAS 75-01-4)  
 Xylene (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Vinyl Acetate (CAS 108-05-4)  
 Vinyl Chloride (Chloroethylene (CAS 75-01-4)

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Methyl Ethyl Ketone (CAS 78-93-3) 6714  
 Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Methyl Ethyl Ketone (CAS 78-93-3) 35 %WV  
 Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Methyl Ethyl Ketone (CAS 78-93-3) 6714  
 Toluene (CAS 108-88-3) 594

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Carbon Black (CAS 1333-86-4)  
 Crystalline Quartz Regulatory (CAS 14808-60-7)  
 Ethylbenzene (CAS 100-41-4)  
 Isopropanol (CAS 67-63-0)  
 Maleic Anhydride (CAS 108-31-6)  
 Methyl Ethyl Ketone (CAS 78-93-3)  
 Toluene (CAS 108-88-3)  
 Vinyl Acetate (CAS 108-05-4)  
 Vinyl Chloride (Chloroethylene (CAS 75-01-4)

Xylene (CAS 1330-20-7)

**US. Massachusetts RTK - Substance List**

Barium Sulfate (CAS 7727-43-7)  
Calcium Carbonate (CAS 1317-65-3)  
Carbon Black (CAS 1333-86-4)  
Crystalline Quartz Regulatory (CAS 14808-60-7)  
Ethylbenzene (CAS 100-41-4)  
Isobutyl Acetate (CAS 110-19-0)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Magnesium oxide (CAS 1309-48-4)  
Maleic Anhydride (CAS 108-31-6)  
Methyl Ethyl Ketone (CAS 78-93-3)  
N-Butyl Alcohol (CAS 71-36-3)  
Silica, amorphous, precipitated and gel (CAS 112926-00-8)  
Toluene (CAS 108-88-3)  
Vinyl Acetate (CAS 108-05-4)  
Vinyl Chloride (Chloroethylene (CAS 75-01-4)  
Xylene (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Barium Sulfate (CAS 7727-43-7)  
Calcium Carbonate (CAS 1317-65-3)  
Carbon Black (CAS 1333-86-4)  
Crystalline Quartz Regulatory (CAS 14808-60-7)  
Ethylbenzene (CAS 100-41-4)  
Isobutyl Acetate (CAS 110-19-0)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Magnesium oxide (CAS 1309-48-4)  
Maleic Anhydride (CAS 108-31-6)  
Methyl Ethyl Ketone (CAS 78-93-3)  
N-Butyl Alcohol (CAS 71-36-3)  
Silica, amorphous, precipitated and gel (CAS 112926-00-8)  
Toluene (CAS 108-88-3)  
Vinyl Acetate (CAS 108-05-4)  
Vinyl Chloride (Chloroethylene (CAS 75-01-4)  
Xylene (CAS 1330-20-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Barium Sulfate (CAS 7727-43-7)  
Calcium Carbonate (CAS 1317-65-3)  
Carbon Black (CAS 1333-86-4)  
Crystalline Quartz Regulatory (CAS 14808-60-7)  
Ethylbenzene (CAS 100-41-4)  
Isobutyl Acetate (CAS 110-19-0)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Magnesium oxide (CAS 1309-48-4)  
Maleic Anhydride (CAS 108-31-6)  
Methyl Ethyl Ketone (CAS 78-93-3)  
N-Butyl Alcohol (CAS 71-36-3)  
Toluene (CAS 108-88-3)  
Vinyl Acetate (CAS 108-05-4)  
Vinyl Chloride (Chloroethylene (CAS 75-01-4)  
Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Ethylbenzene (CAS 100-41-4)  
Isobutyl Acetate (CAS 110-19-0)  
Isobutyl Alcohol (CAS 78-83-1)  
Isopropanol (CAS 67-63-0)  
Maleic Anhydride (CAS 108-31-6)  
Methyl Ethyl Ketone (CAS 78-93-3)  
N-Butyl Alcohol (CAS 71-36-3)  
Toluene (CAS 108-88-3)  
Vinyl Acetate (CAS 108-05-4)



Vinyl Chloride (Chloroethylene (CAS 75-01-4))  
Xylene (CAS 1330-20-7)

### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Black (CAS 1333-86-4)	Listed: February 21, 2003
Crystalline Quartz Regulatory (CAS 14808-60-7)	Listed: October 1, 1988
Ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004
Vinyl Chloride (Chloroethylene (CAS 75-01-4))	Listed: February 27, 1987

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3)	Listed: January 1, 1991
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#### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)	Listed: August 7, 2009
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### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

**Issue date** 06-08-2024

**Version #** 02

**Disclaimer** Our company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.