

## 1. Identification

<b>Product identifier</b>	<b>DIRECT-TO-METAL SEALER</b>	
<b>Other means of identification</b>		
<b>Product Code</b>	MP-210-G	
<b>Recommended use</b>	Automotive Refinish Primer	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Quest Automotive Products	
<b>Address</b>	600 Nova Drive SE Massillon, OH 44646 United States	
<b>Telephone</b>	General Assistance	(330) 830-6000
<b>E-mail</b>	rpandrus@quest-ap.com	
<b>Contact person</b>	Ron Andrus	
<b>Emergency phone number</b>	CHEMTREC	(800) 424-9300

## 2. Hazard(s) identification

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



**Signal word** Danger

**Hazard statement** Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

<b>Response</b>	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. Call a poison center/doctor. 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. Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	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.
<b>Supplemental information</b>	92.79% of the mixture consists of component(s) of unknown acute inhalation toxicity. 88.55% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 88.55% 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	%
Methyl acetate		79-20-9	10 to <20
Talc		14807-96-6	5 to <10
2-butanone		78-93-3	1 to <5
acetone		67-64-1	1 to <5
barium sulfate		7727-43-7	1 to <5
Isobutyl acetate		110-19-0	1 to <5
n-butyl acetate		123-86-4	1 to <5
Titanium dioxide		13463-67-7	1 to <5
Zinc Phosphate		7779-90-0	1 to <5
Ethyl benzene		100-41-4	0.1 to <1
light aromatic solvent naphtha		64742-95-6	0.1 to <1
Zinc oxide		1314-13-2	0.1 to <1
Other components below reportable levels			60 to <70

\*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. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
<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. Get medical attention if symptoms occur.
<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. 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>	Water fog. Foam. 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.
<b>Methods and materials for containment and cleaning up</b>	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. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.  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. 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.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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. When using do not smoke. 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. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. 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 Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
2-butanone (CAS 78-93-3)	PEL	590 mg/m <sup>3</sup> 200 ppm	
acetone (CAS 67-64-1)	PEL	2400 mg/m <sup>3</sup> 1000 ppm	
barium sulfate (CAS 7727-43-7)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
Ethyl benzene (CAS 100-41-4)	PEL	15 mg/m <sup>3</sup> 435 mg/m <sup>3</sup>	Total dust.
Isobutyl acetate (CAS 110-19-0)	PEL	100 ppm 700 mg/m <sup>3</sup>	
Methyl acetate (CAS 79-20-9)	PEL	150 ppm 610 mg/m <sup>3</sup>	
n-butyl acetate (CAS 123-86-4)	PEL	200 ppm 710 mg/m <sup>3</sup>	
Titanium dioxide (CAS 13463-67-7)	PEL	150 ppm 15 mg/m <sup>3</sup>	Total dust.
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Fume. Total dust.

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

Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	0.3 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> 20 mppcf	Total dust. Respirable.

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

Components	Type	Value	Form
		2.4 mppcf	Respirable.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
2-butanone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
barium sulfate (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Ethyl benzene (CAS 100-41-4)	TWA	20 ppm	
Isobutyl acetate (CAS 110-19-0)	TWA	150 ppm	
Methyl acetate (CAS 79-20-9)	STEL	250 ppm	
	TWA	200 ppm	
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm	
	TWA	150 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
2-butanone (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	
		200 ppm	
acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
barium sulfate (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Ethyl benzene (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	
Methyl acetate (CAS 79-20-9)	STEL	760 mg/m3	
		250 ppm	
	TWA	610 mg/m3	
		200 ppm	
n-butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
		200 ppm	
	TWA	710 mg/m3	
		150 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.

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

Components	Type	Value	Form
	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Ethyl benzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*

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

**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**

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin protection**
- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- Other** Wear appropriate chemical resistant clothing.
- Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
- Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. 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** Grey Opaque.

**Odor** Solvent.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -144.4 °F (-98 °C) estimated

**Initial boiling point and boiling range** 134.24 °F (56.8 °C) estimated

**Flash point** 14.0 °F (-10.0 °C) estimated

**Evaporation rate** Not available.

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

**Upper/lower flammability or explosive limits**

- Flammability limit - lower (%)** 3.1 % estimated
- Flammability limit - upper (%)** 16 % estimated
- Explosive limit - lower (%)** Not available.

<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	85.15 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	850 °F (454.44 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	11.30 lbs/gal
<b>Flammability class</b>	Flammable IB estimated
<b>Percent volatile</b>	54.37 %
<b>Specific gravity</b>	1.36
<b>VOC</b>	1 lbs/gal Material 2.2 lbs/gal Regulatory 125 g/l Material 262 g/l Regulatory

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Nitrates.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Toxic if inhaled. 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>	Expected to be a low ingestion hazard.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
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### Information on toxicological effects

<b>Acute toxicity</b>	Toxic if inhaled. Narcotic effects.
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Components	Species	Test Results
2-butanone (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

Components	Species	Test Results
<b>Oral</b>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
acetone (CAS 67-64-1)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	20000 mg/kg 20 ml/kg
<b>Inhalation</b>		
LC50	Rat	76 mg/l, 4 Hours 50.1 mg/l, 8 Hours
<b>Oral</b>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Ethyl benzene (CAS 100-41-4)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
Isobutyl acetate (CAS 110-19-0)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rabbit	4.8 g/kg
Methyl acetate (CAS 79-20-9)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rabbit	3.7 g/kg
n-butyl acetate (CAS 123-86-4)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Wistar rat	160 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	14000 mg/kg
Zinc oxide (CAS 1314-13-2)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Mouse	> 5.7 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	7950 mg/kg
	Rat	> 5 g/kg

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

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.



**Germ cell mutagenicity** May cause genetic defects.

**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Ethyl benzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

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

Not listed.

**Reproductive toxicity** Suspected of damaging the unborn child.

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

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

**Aspiration hazard** Not an aspiration hazard.

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

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
2-butanone (CAS 78-93-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow ( <i>Cyprinodon variegatus</i> )	> 400 mg/l, 96 hours
acetone (CAS 67-64-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	4740 - 6330 mg/l, 96 hours
barium sulfate (CAS 7727-43-7)			
<b>Aquatic</b>			
Crustacea	EC50	Tubificid worm ( <i>Tubifex tubifex</i> )	28.61 - 38.03 mg/l, 48 hours
Ethyl benzene (CAS 100-41-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	7.5 - 11 mg/l, 96 hours
Methyl acetate (CAS 79-20-9)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	295 - 348 mg/l, 96 hours
n-butyl acetate (CAS 123-86-4)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	17 - 19 mg/l, 96 hours
Titanium dioxide (CAS 13463-67-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog ( <i>Fundulus heteroclitus</i> )	> 1000 mg/l, 96 hours
Zinc oxide (CAS 1314-13-2)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2246 mg/l, 96 hours

Components	Species	Test Results
Zinc Phosphate (CAS 7779-90-0)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.09 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)**

2-butanone	0.29
acetone	-0.24
Ethyl benzene	3.15
Isobutyl acetate	1.78
Methyl acetate	0.18
n-butyl acetate	1.78

**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

**DOT**

<b>UN number</b>	UN1263	
<b>UN proper shipping name</b>	Paint, Paint Related Material (NUBIROX 106, XYLENE TOTE	92002)
<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>Environmental hazards</b>		
<b>Marine pollutant</b>	Yes	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.	
<b>Special provisions</b>	IB2, T7, TP1, TP8, TP28	
<b>Packaging exceptions</b>	150	
<b>Packaging non bulk</b>	202	
<b>Packaging bulk</b>	242	

**IATA**

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	Paint, Paint Related Material
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	3H

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

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN1263

**UN proper shipping name** Paint, Paint Related Material

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packing group** II

**Environmental hazards**

**Marine pollutant** Yes

**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.

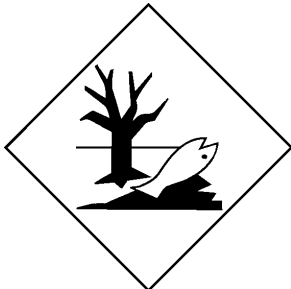
**DOT**



**IATA; IMDG**



**Marine pollutant**



**General information**

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

**15. Regulatory information**

**US federal regulations**

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

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

Not regulated.

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

2-butanone (CAS 78-93-3)	Listed.
acetone (CAS 67-64-1)	Listed.
barium sulfate (CAS 7727-43-7)	Listed.
Ethyl benzene (CAS 100-41-4)	Listed.
Isobutyl acetate (CAS 110-19-0)	Listed.
Methyl acetate (CAS 79-20-9)	Listed.
n-butyl acetate (CAS 123-86-4)	Listed.
Zinc oxide (CAS 1314-13-2)	Listed.
Zinc Phosphate (CAS 7779-90-0)	Listed.

**SARA 304 Emergency release notification**

Not regulated.

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

Not listed.

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

<b>Hazard categories</b>	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Zinc Phosphate	7779-90-0	1 to <5
Ethyl benzene	100-41-4	0.1 to <1
Zinc oxide	1314-13-2	0.1 to <1

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

Ethyl benzene (CAS 100-41-4)

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

Not regulated.

**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**

2-butanone (CAS 78-93-3)	6714
acetone (CAS 67-64-1)	6532

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

2-butanone (CAS 78-93-3)	35 %WV
acetone (CAS 67-64-1)	35 %WV

**DEA Exempt Chemical Mixtures Code Number**

2-butanone (CAS 78-93-3)	6714
acetone (CAS 67-64-1)	6532

**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))**

2-butanone (CAS 78-93-3)
acetone (CAS 67-64-1)
Ethyl benzene (CAS 100-41-4)
light aromatic solvent naphtha (CAS 64742-95-6)
Talc (CAS 14807-96-6)
Titanium dioxide (CAS 13463-67-7)

**US. Massachusetts RTK - Substance List**

2-butanone (CAS 78-93-3)

acetone (CAS 67-64-1)  
 barium sulfate (CAS 7727-43-7)  
 Ethyl benzene (CAS 100-41-4)  
 Isobutyl acetate (CAS 110-19-0)  
 Methyl acetate (CAS 79-20-9)  
 n-butyl acetate (CAS 123-86-4)  
 Talc (CAS 14807-96-6)  
 Titanium dioxide (CAS 13463-67-7)  
 Zinc oxide (CAS 1314-13-2)

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

2-butanone (CAS 78-93-3)  
 acetone (CAS 67-64-1)  
 barium sulfate (CAS 7727-43-7)  
 Ethyl benzene (CAS 100-41-4)  
 Isobutyl acetate (CAS 110-19-0)  
 Methyl acetate (CAS 79-20-9)  
 n-butyl acetate (CAS 123-86-4)  
 Talc (CAS 14807-96-6)  
 Titanium dioxide (CAS 13463-67-7)  
 Zinc oxide (CAS 1314-13-2)  
 Zinc Phosphate (CAS 7779-90-0)

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

2-butanone (CAS 78-93-3)  
 acetone (CAS 67-64-1)  
 barium sulfate (CAS 7727-43-7)  
 Ethyl benzene (CAS 100-41-4)  
 Isobutyl acetate (CAS 110-19-0)  
 Methyl acetate (CAS 79-20-9)  
 n-butyl acetate (CAS 123-86-4)  
 Talc (CAS 14807-96-6)  
 Titanium dioxide (CAS 13463-67-7)  
 Zinc oxide (CAS 1314-13-2)

**US. Rhode Island RTK**

2-butanone (CAS 78-93-3)  
 acetone (CAS 67-64-1)  
 Ethyl benzene (CAS 100-41-4)  
 Isobutyl acetate (CAS 110-19-0)  
 n-butyl acetate (CAS 123-86-4)  
 Zinc oxide (CAS 1314-13-2)  
 Zinc Phosphate (CAS 7779-90-0)

**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**

benzene (CAS 71-43-2)	Listed: February 27, 1987
Carbon Black (CAS 1333-86-4)	Listed: February 21, 2003
Cumene (CAS 98-82-8)	Listed: April 6, 2010
Ethyl benzene (CAS 100-41-4)	Listed: June 11, 2004
Silicon dioxide (CAS 14808-60-7)	Listed: October 1, 1988
Titanium dioxide (CAS 13463-67-7)	Listed: September 2, 2011

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

benzene (CAS 71-43-2)	Listed: December 26, 1997
Toluene (CAS 108-88-3)	Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**

Toluene (CAS 108-88-3)	Listed: August 7, 2009
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**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

benzene (CAS 71-43-2)	Listed: December 26, 1997
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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

Country(s) or region	Inventory name	On inventory (yes/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

<b>Issue date</b>	04-28-2015
<b>Version #</b>	01
<b>HMIS® ratings</b>	Health: 3* Flammability: 3 Physical hazard: 0
<b>NFPA ratings</b>	Health: 3 Flammability: 3 Instability: 0

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