



# Material Safety Data Sheet

Issuing Date 01-Jul-2011

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** White RD Acetone-Based Traffic -100VOC

**Product Code(s)** 7100

**UN-Number** UN1263

**Recommended Use** Traffic paint

**Product Technology** S/B

### Supplier Address

Ennis Paint Inc.  
5910 North Central Expressway  
Suite 1050  
Dallas TX 75206  
T: 800.331.8118  
800.331.8118 (For Technical Inquiries)

**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Highly flammable liquid and vapor  
May be harmful if swallowed, inhaled, or absorbed through skin  
Irritating to eyes and skin  
Risk of serious damage to the lungs (by aspiration)  
Causes central nervous system depression.  
May adversely affect liver and kidney.  
Cancer hazard  
Contains a known or suspected reproductive toxin

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

**Appearance** White

**Physical State** Liquid.

**Odor** Solvent

### Potential Health Effects

#### **Principle Routes of Exposure**

Inhalation. Skin contact. Eye contact.

#### **Acute Toxicity**

**Eyes**  
**Skin**

Moderately irritating to the eyes  
Irritating to skin. May be harmful if absorbed through skin. Repeated exposure may cause skin dryness or cracking.

**Inhalation**

May be harmful if inhaled. Inhalation in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause irritation to mucous membranes. Aspiration may cause pulmonary edema and pneumonitis. May cause additional affects as listed under "Inhalation".
<b>Chronic Effects</b>	This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). May cause adverse liver and kidney effects.
<b>Aggravated Medical Conditions</b>	Exposure to chlorinated hydrocarbons, such as chloroform and trichloroethane, may increase toxic effects. Liver disorders. Neurological disorders Skin disorders. Kidney disorders. Pre-existing eye disorders. Respiratory disorders.
<b>Interactions with Other Chemicals</b>	Use of alcoholic beverages may enhance toxic effects.
<b>Environmental Hazard</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Acetone	67-64-1	15-40
Titanium dioxide	13463-67-7	10-30
Dioctylphthalate	117-81-7	1-5
Quartz	14808-60-7	0.1-1

### 4. FIRST AID MEASURES

<b>General Advice</b>	If swallowed, get medical help or contact a Poison Control Center right away. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if applicable, and continue flushing. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing has stopped, contact emergency medical services immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Aspiration hazard. Treat symptomatically.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Highly flammable liquid and vapor
<b>Flash Point</b>	-4°F / -20°C (Acetone)
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Use water spray or fog; do not use straight streams.

<b>Unsuitable Extinguishing Media</b>	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	None			
<b>Sensitivity to Static Discharge</b>	Yes.			
<b>Specific Hazards Arising from the Chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.			
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2*</b>	<b>Flammability 3</b>	<b>Physical Hazard 0</b>	<b>Personal Protection X</b>

*\*Indicates a chronic health hazard.*

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Prevent entry into waterways, sewers, basements or confined areas. Do not allow material to contaminate ground water system.
<b>Methods for Containment</b>	Dike far ahead of liquid spill for later disposal. A vapor suppressing foam may be used to reduce vapors.
<b>Methods for Cleaning Up</b>	Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Use clean non-sparking tools to collect absorbed material.
<b>Other Information</b>	Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Use only in area provided with appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup> (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m <sup>3</sup> (vacated) STEL: 2400 mg/m <sup>3</sup> The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm 10% LEL TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>
Phthalate compound	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 10 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Engineering Measures

Showers. Eyewash stations. Explosion proof ventilation systems.

### Personal Protective Equipment

#### Eye/Face Protection

Tightly fitting safety goggles.

#### Skin and Body Protection

Protective gloves. Solvent-resistant apron and boots

#### Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

### Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White.	<b>Odor</b>	Solvent.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Flash Point</b>	-4°F / -20°C (Acetone)	<b>Boiling Point/Boiling Range</b>	>35°C / >95°F
<b>Decomposition Temperature</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Melting Point/Range</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Flammability Limits in Air</b>	(For Acetone)	<b>Vapor Density</b>	No data available
Upper	12.8		
Lower	0.8		
<b>Solubility</b>	No information available.		
<b>Vapor Pressure</b>	No data available		

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong acids. Strong oxidizing agents. Chlorinated compounds.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone	= 5800 mg/kg ( Rat )	1700mg/kg (rabbit)	18892 mg/m <sup>3</sup>
Phthalate compound	= 6860 mg/kg ( Rat )	= 24500 mg/kg ( Rabbit )	> 23.67 mg/L ( Rat ) 1 h > 10.62 mg/L ( Rat ) 4 h
Quartz	500 mg/kg ( Rat )		

### Chronic Toxicity

#### **Chronic Toxicity**

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). May cause adverse liver and kidney effects.

#### **Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Diethylphthalate	A3	Group 3	Reasonably Anticipated	X
Quartz	A2	Group 1	Known	X

#### **ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

#### **IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

#### **NTP: (National Toxicity Program)**

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

#### **OSHA: (Occupational Safety & Health Administration)**

X - Present

#### **Reproductive Toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

#### **Target Organ Effects**

Central nervous system (CNS). Kidney. Liver. Respiratory system.

## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone		LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus)	EC50 = 14500 mg/L 15 min	EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna)
Diethylphthalate	EC50 96 h: > 0.1 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: > 0.1 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: > 130 mg/L (Desmodesmus subspicatus)	LC50 96 h: 0.27 - 0.67 mg/L flow-through (Pimephales promelas) LC50 96 h: > 0.16 mg/L static (Pimephales promelas) LC50 96 h: > 0.200 mg/L flow-through (Lepomis macrochirus) LC50 96 h: > 0.200 mg/L static (Lepomis macrochirus) LC50 96 h: > 0.32 mg/L semi-static (Brachydanio rerio) LC50 96 h: > 0.32 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: > 0.32 mg/L semi-static (Oryzias latipes) LC50 96 h: > 0.32 mg/L semi-static (Poecilia reticulata) LC50 96 h: > 0.67 mg/L flow-through (Oryzias latipes) LC50 96 h: > 100 mg/L static (Oncorhynchus mykiss)	EC50 = 800 mg/L 15 min EC50 = 800 mg/L 30 min EC50 = 800 mg/L 5 min	LC50 48 h: = 9.4 mg/L (Daphnia magna) EC50 48 h: > 0.16 mg/L (Daphnia magna)

Chemical Name	Log Pow
Acetone	-0.24
Diethylphthalate	5.03

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

Dispose of in accordance with local regulations. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

### Contaminated Packaging

Do not re-use empty containers. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### US EPA Waste Number

D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone - 67-64-1		Included in waste stream: F039		U002
Diethylphthalate - 117-81-7	U028	Included in waste stream: F039		U028

### California Hazardous Waste Codes 461

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Acetone	Ignitable

<b>14. TRANSPORT INFORMATION</b>
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**Note:** This product contains hazardous materials with reportable quantities as listed in Section 15. Based on net weight of product, the shipping description and label may need to be marked with "RQ."

**DOT**

<b>UN-Number</b>	UN1263
<b>Proper shipping name</b>	Paint
<b>Hazard Class</b>	3
<b>Subsidiary Class</b>	None
<b>Packing Group</b>	II
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a severe marine pollutant according to DOT.
<b>Description</b>	UN1263,Paint,3,PG II,Marine Pollutant
<b>Emergency Response Guide Number</b>	128

**TDG**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1263,PAINT,3,PG II,Marine Pollutant

**MEX**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1263 Paint,3,II

**ICAO**

<b>UN-Number</b>	UN1263
<b>Proper shipping name</b>	Paint related material
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1263,Paint related material,3,PG II

**IATA**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>ERG Code</b>	3L
<b>Description</b>	UN1263,Paint,3,PG II

**IMDG/IMO**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>EmS No.</b>	F-E, S-E
<b>Description</b>	UN1263, Paint,3,PG II,Marine Pollutant, FP -18C

**RID**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint



<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Description</b>	UN1263 Paint,3,II

**ADR**

<b>UN-Number</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Description</b>	UN1263 Paint,3,II

**ADN**

<b>UN-No</b>	UN1263
<b>Proper Shipping Name</b>	Paint
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Classification Code</b>	F1
<b>Special Provisions</b>	163, 640C, 650
<b>Description</b>	UN1263 Paint,3,II
<b>Hazard Labels</b>	3
<b>Limited Quantity</b>	LQ6
<b>Ventilation</b>	VE01

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Diethylphthalate	117-81-7	1.2	0.1

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phthalate compound		X	X	

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Acetone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Phthalate compound	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Phthalate compound		Carcinogen Developmental Male Reproductive
Quartz	14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	X	X	X	-	X
Titanium dioxide	X	X	X	-	X
Diethylphthalate	X	X	X	X	X
Acetone		X			X

**International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Acetone		Mexico: TWA= 1000 ppm Mexico: TWA= 2400 mg/m <sup>3</sup> Mexico: STEL= 1260 ppm Mexico: STEL= 3000 mg/m <sup>3</sup>
Phthalate compound	A3	Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid  
D2A Very toxic materials  
D2B Toxic materials

**Canadian National Pollutant Release Inventory (NPRI)**

Chemical Name	NPRI
Phthalate compound	X

**Legend**

X - Listed

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 01-Jul-2011

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

**End of Safety Data Sheet**