

**Rust Ranger, Inc.**  
**1840 Production Drive**  
**St. Charles, Illinois 60174 USA**  
 Tel # 630-513-5600 / Fax # 630-513-5640  
 techsrv@rustranger.com

**Material Safety Data Sheet**  
**RD-4100 Oil Film Rust Deterrent**

Page # 1

Effective Date: **July 1, 1996**  
 Print Date: **April 12, 2004**

<b>Product Name</b>	<b>RD-4100</b>	<b><u>Hazardous Material Index System</u></b>	
Chemical Family	Petroleum Hydrocarbon	<b>H = 1</b>	<b>0 = Minimal</b>
Chemical Name	Petroleum Distillate Base Rust Deterrent	<b>F = 2</b>	<b>1 = Slight</b>
Chemical Formula	Proprietary	<b>R = 0</b>	<b>2 = Moderate</b>
DOT Proper Shipping Name	Not Listed	<b>H=Health</b>	<b>3 = High</b>
DOT Hazard Class	Non-Hazardous	<b>F=Flammability</b>	<b>4 = Extreme</b>
Resource Conservation And Recovery Act	EPA Hazardous Waste #: None	<b>R=Reactivity</b>	<b>* = Chronic</b>
Toxic Substances Control Act	Does Not Contain Toxic Substances Or Ingredients	Chronic Information <b>None</b>	



**Do Not Smoke During Use!**

Special Note

This Material Contains Rule 66/3 Low Odor Low Aromatic Mineral Spirits (Naphtha)

General Information

**After Drying RD-400 HMIS Rating Is H=1, F=1, R=0; Due To the Evaporation Of The Rule 66/3 Low Odor Low Aromatic Mineral Spirits Component.**

<b><u>Physical Data</u></b>		<b><u>Ingredients</u></b>		
Appearance	<b>Amber Liquid</b>	<u>Hazardous Components</u>	<u>Hazards</u>	<u>TLV</u>
Ph	<b>Not Applicable</b>	<b>Rule 66/3 Low Odor Low Aromatic Mineral Spirits CAS # 8052-41-3</b>	<b>Flash Point 115 F</b>	<b>500 A</b>
Odor	<b>Solvent Odor</b>			
Solubility (Water)	<b>Not Applicable</b>			
Specific Gravity	<b>.91</b>	<u>Basic Ingredients</u>		
Boiling Point (C/F)	<b>243 / 470</b>	<p><b>This Material Is Composed Of Safe Non-Toxic, Non Hazardous Industrial Grade Rust Deterrent Components.</b></p> <p><b>The exact chemical identities and/or percentages of the raw material components used in this product are trade secrets, and are being withheld as provided for by the Occupational Safety and Health Administration's Communication Rule (29 CFR 1910.1200)</b></p> <p><b>If medical treatment is required Rust Ranger, Inc.. will provide any information necessary to help facilitate any medical treatment.</b></p>		
Vapor Pressure @ 20 C	<b>Not Determined</b>			
Vapor Density	<b>Not Determined</b>			
Volatile By Volume (%)	<b>60.00 %</b>			
Other Data				

**Fire / Explosion Hazard Data**

Flash / Fire (C/F)	<b>168 / 360 COC</b>	<p>Unusual Fire And Explosion And Explosion Hazards</p> <p><b>Closed Full, Closed Partially Full And Closed Empty Containers May Experience High Internal Pressures Due To High External Heating Caused By A Fire, Thereby, Possibly Creating A Hazardous Explosive Condition</b></p>
Flammable Limits In Air (By % Volume)	<b>Not Applicable</b>	
Extinguishing Media	<b>Dry Chemical, Carbon Dioxide Or Foam</b>	
Special Fire Fighting Procedures	<b>Fire Fighting Personnel Should Wear Respiratory Protection (Positive Pressure).</b>	

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**Reactivity**

Stability	<b>Stable</b>	Hazardous Decomposition Products  <b>Oxides Of Carbon (Carbon Monoxide And Carbon Dioxide) And Oxides Of Sulfur</b>
Conditions To Avoid	<b>Not Applicable</b>	
Incompatibility (Materials To Avoid)	<b>None</b>	
Hazardous Polymerization	<b>Will Not Occur</b>	

**Health Hazards**

Chronic Overexposure	<b>None Know</b>	Acute Overexposure
Threshold Limit	<b>Not Established</b>	<b>Low Order Of Acute Toxicity.</b>
Chemical Listed As A Carcinogen And/Or As A Potential Carcinogen	<p><b>Direct Eye Contact may Cause Slight Reversible Eye Irritation. Extremely Prolonged Direct Skin Contact May Cause Reversible Dermatitis. Breathing Extremely Heavy Mist May Cause Slight Reversible Transient Irritation. Ingestion May Cause Cramps And/Or Diarrhea.</b></p>	
<b>This Material Is Not Listed As A Carcinogen, Nor Is It Listed As A Potential Carcinogen.</b>		

**Emergency And First Aid Procedures**

***In All Cases Remove From Source Of Exposure***

Inhalation	<b>Not Likely To Occur Except As Extremely Heavy Mist. Remove To Fresh Air And Consult Physician, If Condition Persists.</b>
Eyes	<b>Flush Eyes Immediately With large Amount Of Water. Do Not Rub Eyes! Consult Physician If Irritation Persists.</b>
Skin	<b>Wash With Mild Soap. If Irritation Persists Consult Physician.</b>
Ingestion	<b>Do Not Induce Vomiting! Consult Physician Immediately.</b>

**Special Protection Equipment**

Respiration Protection	<b>Not Normally Required In Normal Shop Ventilation Situations. If Exposure Limit Is Exceeded NIOSH/MSHA Approved Apparatus May Be Used</b>
Ventilation	<b>If Heavy Mist Occurs, Provide Ventilation To Control To Permissible Level.</b>
Protective Gloves	<b>Mineral Spirits Resistant Type Gloves Recommended.</b>
Eye Protection	<b>Safety Goggles Or Splash Goggles Recommended.</b>
Other Protective Clothing And/Or Equipment	<b>If There Is Likelihood Of Splashing, Water Resistant Apron Should Be Worn To Prevent Clothing Soiling.</b>

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**Special Precautions And Spill / Leak Procedures**

Precautions To Be Taken In  
Handling And/Or Storage

**Keep Away From Open Flames, Or Sparks!**  
**Store Indoors In Cool Dry Area.**

Other Precautions

**Never Use A Torch To Cut On And/Or Near Containers.**  
**Never Wear Rust Remover Soaked Clothing And/Or Shoes.**  
**Launder Or Dry Clean Clothing Before Reuse.**  
**Replace Rust Remover Soaked Shoes**

Steps to Be Taken In Case Of  
Material Release And/Or Spill

**Shut Off All Electrical Power And/Or Receptacles In The Immediate Area.**  
**Contain Spill And Keep From Entering Waterways Or Sewers. Use Absorbent;**  
**Sweep Up Residue And Discard According To Local/State and Federal**  
**Regulation. Wash Area To Prevent Spilling Or Falling.**

Waste Disposal Method

**Virgin Material Is Composed Of Petroleum Hydrocarbon Components.**  
**Consult Local, State And/Or Federal Regulations, Or Use Licensed Waste**  
**Disposal Service.**

Empty Container Handling

**Drums**

**Storage:**

**As A Precaution To Avoid Spills, Leaks Or Run-Off Into Ground Water; Empty**  
**Drums Are To Be Stored Inside (In A Cool Dry Area), In A Neat/Orderly Manner,**  
**In An Upright Position With Bungs Loosely Closed.**

**Recycling:**

**All Empty Steel Drums Are To Be Recycled Thru A DOT (Department Of**  
**Transportation) Licensed Drum Recycling/Cleaning Facility.**

**Pails**

**Are To Be Drained And/Or Cleaned Of All Residue Material And Disposed Of In**  
**Accordance With Local, State And Federal Solid Waste Regulations, Or**  
**Recycled Thru Available Recycling Systems.**

**Plastic Pails Are Composed Of Polyethylene.**

**Steel Pails Are Composed Of Low Carbon Sheet Steel.**

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**End Of:**

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