

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-4000 Dry Film Rust Deterrent

Page # 1

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

Product Name	RD-4000	<u>Hazardous Material Index System</u>	
Chemical Family	Petroleum Hydrocarbon	H = 1	0 = Minimal
Chemical Name	Petroleum Distillate Base Rust Deterrent	F = 2	1 = Slight
Chemical Formula	Proprietary	R = 0	2 = Moderate
DOT Proper Shipping Name	Not Listed	H=Health	3 = High
DOT Hazard Class	Non-Hazardous	F=Flammability	4 = Extreme
Resource Conservation And Recovery Act	EPA Hazardous Waste #: None	R=Reactivity	* = Chronic
Toxic Substances Control Act	Does Not Contain Toxic Substances Or Ingredients	Chronic Information None	



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.

<u>Physical Data</u>		<u>Ingredients</u>		
Appearance	Amber Liquid	<u>Hazardous Components</u>		
Ph	Not Applicable	<u>Hazards</u>		
Odor	Solvent Odor	<u>TLV</u>		
Solubility (Water)	Not Applicable	Rule 66/3 Low Odor Low Aromatic Mineral Spirits		
Specific Gravity	.793	Flash Point 115 F		
Boiling Point (C/F)	159 / 318	CAS # 8052-41-3		
Vapor Pressure @ 20 C	Not Determined	<u>Basic Ingredients</u>		
Vapor Density	Not Determined	<p>This Material Is Composed Of Safe Non-Toxic, Non Hazardous Industrial Grade Rust Deterrent Components.</p> <p>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)</p> <p>If medical treatment is required Rust Ranger, Inc.. will provide any information necessary to help facilitate any medical treatment.</p>		
Volatile By Volume (%)	94.00 %			
Other Data				

<u>Fire / Explosion Hazard Data</u>		
Flash / Fire (C/F)	46 / 115 COC	Unusual Fire And Explosion And Explosion Hazards 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
Flammable Limits In Air (By % Volume)	Not Applicable	
Extinguishing Media	Dry Chemical, Carbon Dioxide Or Foam	
Special Fire Fighting Procedures	Fire Fighting Personnel Should Wear Respiratory Protection (Positive Pressure).	

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-4000 Dry Film Rust Deterrent

Page # 2

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

Reactivity

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

Health Hazards

Chronic Overexposure	None Know	Acute Overexposure
Threshold Limit	Not Established	Low Order Of Acute Toxicity.
Chemical Listed As A Carcinogen And/Or As A Potential Carcinogen		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.
This Material Is Not Listed As A Carcinogen, Nor Is It Listed As A Potential Carcinogen.		

Emergency And First Aid Procedures

In All Cases Remove From Source Of Exposure

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

Special Protection Equipment

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

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-4000 Dry Film Rust Deterrent

Page # 3

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

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.

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

End Of:

Material Safety Data Sheet
RD-4000 Dry Film Rust Deterrent