



## Technical Data Sheet

### Permatex<sup>®</sup> Rust Treatment

INDUSTRIAL

#### PRODUCT DESCRIPTION

S.I.N.: 834-300

Permatex<sup>®</sup> Rust Treatment is a fast drying milky white latex coating that is applied to rusted metal to stop rust, protect the surface and act as a primer for the finish coat.

#### PRODUCT BENEFITS

- Kills old rust – prevents new rust
- No sandblasting – simply wire brush to remove loose rust, clean off any oil, dirt or grease and brush on Permatex<sup>®</sup> Rust Treatment.
- Works on damp rusty metal
- Converts and primes in one operation
- Changes from a white liquid to a tough, black coating in the presence of iron oxides
- Safe, non-flammable, low toxicity

#### TYPICAL APPLICATIONS

- Destroys rust on all automotive applications
- Trucks, trailers, storage tanks
- Pipes, valves, fittings in refineries, tankers, power plants, domestic and commercial heating/cooling plants
- Fences, guard rails, conveyors, supports
- Overhead cranes, booms, floor grating, duct work
- Outdoor advertising sign supports/frames, municipal and highway sign posts and frames
- Bulkheads, overheads, decks, hatch covers, stacks on ships (topcoat with appropriate marine paint)
- Agricultural equipment, harvesters, plows, discs, tractors, corn pickers, etc.
- Snow removal equipment in highway department maintenance yards

#### DIRECTIONS FOR USE

1. Remove oil grease and dirt.
2. Wire brush surface to remove loose rust, mill scale and paint.
3. Rinse with water to remove powder and solubles.  
NOTE: Light rust should be firmly bonded to the surface of the metal and not easily removed by wiping. Rust Treatment will easily convert properly prepared bare metal surfaces.
5. Mix thoroughly before using.
6. Pour into a clean container for easy application by brushing or apply directly to surface and brush out.
7. Brush, roll or sponge on liberally. Spray application is recommended for large areas. Airless spray equipment is faster and provides more effective conversion due to improved surface penetration. Conventional air-spray equipment may be used, but Rust Treatment may require thinning up to 10% with water for proper spraying.
8. A purple to black coating will begin to appear within 20

minutes depending on temperature and humidity conditions. Uneven color indicates the need for additional coats. For maximum protection, application of 2 coats for 4 mils dry film thickness is recommended. Apply a second coat within 15 – 30 minutes of the first coat. Allow a minimum of 24 hours drying time before priming again or applying a finish coat.

9. Most finish paints will not require any additional primer. However, water based paints and metal filled paints will require a solvent based primer on top of the Rust Treatment coating, prior to applying the finish coat.

#### For Cleanup

1. When Rust Treatment dries, it is extremely difficult to remove; therefore spatters should be cleaned up as they occur.
2. Brushes, rollers and other tools and spatters should be cleaned immediately with water and detergent. Rust Treatment is difficult to remove when dry.
3. Spray equipment must be flushed immediately with mild detergent and water then rinsed with fresh water.
4. If Rust Treatment is spilled on clothes, the garment should be soaked with cold tap water as soon as possible and Rust Treatment washed out before it dries. **Do not use** ammonia, strong alkali detergents or hot water to clean up.
5. Hands and nails should be cleaned with soap and water using a nailbrush. Black stains from iron-contaminated Rust Treatment can be removed from the hands with a mixture of 1 part liquid household bleach and 4 parts of tap water, followed by washing with soap and water. Spills of Rust Treatment should be flushed with large amounts of cold tap water.

#### PROPERTIES OF UNCURED MATERIAL

	Typical Value
Chemical Type	Synthetic latex resin
Appearance	Milky off-white liquid
Odor	Mild odor
Specific Gravity	1.20
Viscosity	Flow similar to SAE 60 Motor Oil
Flash Point, TCC	None

#### GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems.**

**For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).**

**ORDERING INFORMATION**

Part Number	Container Size
81775 (RT-8A)	8 fl. oz. bottle
81773 (RT-16A)	16 fl. oz. bottle
81387	1 quart Bottle
75448	1 gallon bottle

**STORAGE**

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° to 28°C (46° to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

**NOTE**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. **Permatex, Inc. specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Permatex, Inc. products and disclaims any liability for consequential or incidental damages of any kind, including lost profits.** This product may be covered by one or more United States or foreign patents or patent applications.



# SAFETY DATA SHEET

Version 3

## 1. IDENTIFICATION

### Product identifier

**Product Name** RT-16-A RUST TREATMENT 16OZ BO

### Other means of identification

**Product Code** 81773

### Recommended use of the chemical and restrictions on use

**Recommended Use** Rust preventative

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** White

**Physical state** Liquid

**Odor** Mild

#### **Precautionary Statements - Storage**

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

- Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**4. FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	Get medical advice/attention if you feel unwell.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	IF ON SKIN: Wash skin with soap and water. If skin irritation persists, call a physician. Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** See section 2 for more information.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

**Unsuitable extinguishing media**

None

**Specific hazards arising from the chemical**

None in particular.

**Explosion data**

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with eyes and skin.

### Environmental precautions

**Environmental precautions** See section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep from freezing.

**Incompatible materials** Strong oxidizing agents, Bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** .  
*NIOSH IDLH Immediately Dangerous to Life or Health*

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

### Appropriate engineering controls

**Engineering Controls** Eyewash stations

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

**Respiratory protection** Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

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<b>Physical state</b>	Liquid
<b>Appearance</b>	White
<b>Odor</b>	Mild
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3.5	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	100 °C / 212 °F	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>	<1	Butyl acetate = 1
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	24 mm Hg	
<b>Vapor density</b>	>1	Air = 1
<b>Relative density</b>	1.22	
<b>Water solubility</b>	Soluble in water	
<b>Solubility(ies)</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b><u>Other Information</u></b>		
<b>Softening point</b>	No information available	
<b>Molecular weight</b>	No information available	
<b>VOC Content (%)</b>	2%	
<b>Density</b>	No information available	
<b>Bulk density</b>	No information available	
<b>SADT (self-accelerating decomposition temperature)</b>	No information available	

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

Stable under normal conditions

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Keep from freezing.

### Incompatible materials

Strong oxidizing agents, Bases

### Hazardous Decomposition Products

Carbon oxides  
Hydrogen chloride

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
<b>Skin contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes.

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Chronic toxicity</b>	May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
<b>Target Organ Effects</b>	Blood, Central nervous system, Eyes, Hematopoietic System, kidney, Liver, Respiratory system, Skin.

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	4134 mg/kg
<b>ATEmix (dermal)</b>	52125 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	12.9 mg/l
<b>ATEmix (inhalation-vapor)</b>	22452 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

11.1108 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.
<b>US EPA Waste Number</b>	Not applicable

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## 14. TRANSPORT INFORMATION

**DOT**

Proper shipping name: Not regulated

**IATA**

Proper shipping name: Not regulated

**IMDG**

Proper shipping name: Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Not determined
<b>ENCS</b>	Not determined
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Not determined

**Legend:**

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

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

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

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	SARA 313 - Threshold Values %
BARIUM SULFATE - 7727-43-7	1.0
2-BUTOXYETHANOL - 111-76-2	1.0

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**



**California Proposition 65**

WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
BARIUM SULFATE 7727-43-7	X	X	X
PROPYLENE GLYCOL 57-55-6	X	-	X
2-BUTOXYETHANOL 111-76-2	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 1	Flammability 0	Instability 0	-
<b>HMIS</b>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association)  
HMIS (Hazardous Material Information System)

**Revision Date**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**