



Technical Data Sheet

Permatex[®] Rust Treatment

INDUSTRIAL

PRODUCT DESCRIPTION

S.I.N.: 834-300

Permatex[®] 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[®] 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, overhangs, 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-8-A RUST TREATMENT 8OZ BO

Other means of identification

Product Code 81775

Recommended use of the chemical and restrictions on use

Recommended Use Rust preventative

Uses advised against No information available

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

| | |
|---|--|
| General advice | Get medical advice/attention if you feel unwell. |
| Eye contact | 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. |
| Skin contact | IF ON SKIN: Wash skin with soap and water. If skin irritation persists, call a physician. Take off contaminated clothing and wash before reuse. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician. |
| Self-protection of the first aider | 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 (CO2), 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.

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

| | |
|-----------------------|--------------------------|
| Physical state | Liquid |
| Appearance | White |
| Odor | Mild |
| Odor threshold | No information available |

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

| | |
|---------------------|--|
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | Contact with eyes may cause irritation. May cause redness and tearing of the eyes. |
| Skin contact | May cause skin irritation and/or dermatitis. |
| Ingestion | 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

| | |
|-------------------------------|---|
| Sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Chronic toxicity | May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. |
| Target Organ Effects | 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 .

| | |
|--------------------------------------|-------------|
| ATEmix (oral) | 4134 mg/kg |
| ATEmix (dermal) | 52125 mg/kg |
| ATEmix (inhalation-dust/mist) | 12.9 mg/l |
| ATEmix (inhalation-vapor) | 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

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

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

| | |
|----------------------|----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Not determined |
| ENCS | Not determined |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | 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

| | |
|--|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | 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

81775 - RT-8-A RUST TREATMENT 8OZ BO

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

| | | | | |
|-------------|------------------|----------------|--------------------|-----------------------|
| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | - |
| HMIS | 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