

Rust and Stain Remover

Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier used on the label : **Rust and Stain Remover**

Other means of identification : Concentrated Rust and Stain Remover
: 2183034, 106-8094

Recommended use of the chemical and restrictions on use:

Product for hospital and professional use only to remove rust and stains. Not for home use.

Name, address, and telephone number of the chemical manufacturer:

BELIMED INC.
8351 Palmetto Commerce Parkway, Suite 101
Ladson, SC 29456 USA
Telephone Number for Information : 1-800-451-4118

Emergency telephone number

CHEMTREC : 1-800-424-9300 (24/7, US and Canada)

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

| Hazard Class | Hazard Category |
|--------------------|-----------------|
| SKIN CORROSION | : 1C |
| SERIOUS EYE DAMAGE | : 1 |

Signal word, hazard statement(s), symbol(s) and precautionary statement(s)

Signal word : WARNING

Hazard Statement(s) : Causes severe skin burns and eye damage.



Precautionary Statements

: Prevention

Wear eye/face protection.
Avoid breathing dust/fumes/gas/mist/vapors/spray.
In case of inadequate ventilation, wear respiratory protection.

: Response

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to remove. Continue rinsing.
Immediately contact a physician or poison control center.
IF ON SKIN (on hair): Immediately remove all contaminated clothing.
Shower or wash with plenty of water. Wash contaminated clothing before reuse.
IF INHALED: Remove from exposure area to fresh air and keep at rest in a position comfortable for breathing. Immediately contact physician or poison control center.

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|--|---|
| Storage | : Store locked up. |
| Disposal | : Dispose of contents/container to an approved waste disposal facility. |
| Hazards not otherwise classified | : Do not mix with bleach or other chlorinated products, as this will cause chlorine gas to form |
| Percentage of ingredient(s) with unknown toxicity | : None known. |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with 29 CFR 1910.1200

| Chemical Name | CAS Number (Unique Identifier) | Concentration | Classification §1910.1200 |
|-----------------|-----------------------------------|---------------|---|
| Phosphoric Acid | 7664-38-2 | 24.0 - 28.0 | Skin Corr. 1C, H314 Eye Dam. 1, H318 May be Corrosive to Metals, H290 |

SECTION 4: FIRST AID MEASURES

Description of necessary measures

Inhalation: Remove from exposure area to fresh air. Seek medical attention immediately.

Skin contact: Immediately wash off with plenty of water for at least 20 minutes while removing contaminated clothing. Use mild soap, if available. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Eye contact: Immediately rinse with plenty of water, including under eyelids, for at least 20 minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get medical attention immediately.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Inhalation: Corrosive. Burns in respiratory tract, shortness of breath.

Skin contact: Corrosive. Severe burns, redness.

Eye contact: Corrosive. Corneal damage, burning, redness, blurred vision.

Ingestion: Corrosive. Damages mucous membranes, severe burning of gastrointestinal tissues, nausea and intestinal pain, vomiting and possible death if swallowed.

Indication of any immediate medical attention and special treatment needed

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After inhalation: Remove from exposure area to fresh air. Seek medical attention immediately.

After skin contact: Immediately wash off with plenty of water for at least 20 minutes while removing contaminated clothing. Use mild soap, if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

After eye contact: Immediately flush eye, including under the eyelids, with water for at least 20 minutes. If able to do so, remove contact lenses while rinsing eye. Get medical attention.

After ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5: FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media: Not known

Specific hazards arising from the chemical: Not flammable or combustible. Hydrogen gas is released in contact with most metals. Combustion by-products may include: carbon oxide, nitrogen oxides (NO_x), oxides of phosphorous, sulfur oxide.

Special protective equipment and precautions for firefighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources and apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors, keep upwind. Keep unnecessary personnel away.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation. Keep away from or upwind of spill/leak. Avoid inhalation, ingestion, and contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. In case of large spills, dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fumes/gas/mist/vapors/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products, as this will produce chlorine gas.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in suitable, labeled containers. Do not expose to extreme temperatures.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

| Hazardous Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|---------------------|---------------------|-----------|--------------------------------------|
| Phosphoric Acid | 3 mg/m ³ | 1 mg/m ³ | None | NIOSH IDLH = 1 mg/m ³ TWH |

Appropriate engineering controls

Good general ventilation should be sufficient. Maintain air concentrations below occupational exposure standards. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Individual protection measures

Respiratory: When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Eye: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.]

Hand/Body: Wear suitable protective gloves: Gloves should be discarded or replaced if there is any indication of degradation or chemical breakthrough. Wear face protection and protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance | : Clear, Light Yellow, Liquid |
| Odor | : Mild |
| Odor threshold | : Not available |
| pH | : < 1.0 (neat) |
| pH | : 0.8 - 1.5 (1% solution) |
| Melting point / range | : Not available |
| Boiling point / range | : Not determined |
| Flash point | : Not determined |
| Evaporation rate | : Not determined |
| Flammable/Explosive limits - lower | : Not available |
| Flammable/Explosive limits - upper | : Not available |
| Vapor pressure | : Not determined |
| Vapor density | : Not determined |
| Solubility in water | : Completely soluble |
| Partition coefficient (n-octanol/water) | : Not available |
| Autoignition temperature | : Not available |
| Decomposition temperature | : Not available |
| Viscosity | : Not available |
| VOC content | : Not available |
| Density | : Not available |
| Relative Density | : Approximately 1.095 (Specific Gravity) |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | : Not available |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : Do not mix with bleach or other chlorinated products, as this will cause chlorine gas to form. |
| Conditions to avoid | : Do not mix with strong bases or oxidants. Contact with some metals may generate release of hydrogen gas. |
| Incompatible materials | : Alkalis |
| Hazardous decomposition products | : Decomposition products may include the following materials: carbon oxide, nitrogen oxides (NOx), oxides of phosphorous, sulfur oxide |

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation: May cause sensitization by inhalation.

Skin contact: May cause irritation, burns, and redness.

Eye contact: Corrosive. Corneal damage, burning, redness, blurred vision. Causes serious eye damage.

Ingestion: There is no data available for this product.

Physical/Chemical:

Not available.

Other relevant toxicity information:

The use of this product by the end-user is safe under normal and reasonable foreseen use.

Numerical measures of toxicity, including delayed and immediate effect

This table shown below addresses the following toxicological endpoints, if applicable:

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Aspiration hazard

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|---|---|
| Phosphoric Acid | Oral LD50 (RAT) = 1530mg/kg Dermal LD50(RABBIT) = 2730 mg/kg Inhalation LC50 (RAT, 1 h) = 850 mg/m3 | Target organs: respiratory system, eyes, skin May cause sensitization of susceptible persons. May cause sensitization by inhalation. |

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Carcinogenicity information

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|------------------------|----------------|-----------------|-----------------|
| Phosphoric Acid | No | No | No |

Carcinogenicity : Contains no ingredients above reportable quantities listed as a carcinogen.

Mutagenicity : Not classified

Reproductive Toxicity : Not classified

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:

The following toxicity information is available for the hazardous ingredient(s) when used as technical grade. The product is anticipated to be safe for the environment at concentrations predicted in settings under normal use conditions.

Toxicity to fish:

The product is not anticipated to be toxic to fish. The following data is for the product tested in accordance with EPA-821-R-02-012 (Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms).

| Hazardous substance | Parameter | Value | Exposure Time | Species |
|---------------------|-----------|----------|---------------|---------------------|
| Product | LC50 | 274 mg/L | 96 hrs. | Pimephales promelas |

Toxicity to aquatic invertebrates:

The product end use dilutions are not anticipated to be toxic to aquatic invertebrates.

Toxicity to algae:

The product is not anticipated to be toxic to algae.

Persistence and degradability:

The majority of the components of this product are anticipated to be biodegradable.

Bioaccumulation Potential:

The bioaccumulation potential of this product are anticipated to be biodegradable.

Mobility:

The mobility of this product (in soil and in water) has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Number and Description : D002 (Corrosive)

Disposal considerations : This product is a RCRA hazardous material.

Disposal of products : Dispose of in an approved hazardous waste disposal facility and in accordance with federal, state, and local regulations.

Disposal of packages : Do not reuse empty containers. Empty containers should be taken to an approved waste-handling facility for recycling or disposal.

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SECTION 14: TRANSPORT INFORMATION SECTION 14: TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

| | |
|--------------------------|--|
| Land Transport (DOT) | : Corrosive Liquid, Phosphoric Acid Solution, 8, UN 1805, PG III |
| Sea Transport (IMDG/IMO) | : Corrosive Liquid, Phosphoric Acid Solution, 8, UN 1805, PG III |
| Air transport (IATA) | : Corrosive Liquid, Phosphoric Acid Solution, 8, UN 1805, PG III |

SECTION 15: REGULATORY INFORMATION

Occupational Safety and Health Act:

Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Safety Data Sheets (SDSs) to provide information about any hazard that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information

| | |
|---|--|
| TSCA 12 (b) Export Notification | : All components are listed. |
| CERCLA/SARA Section 302 EHS | : None. |
| CERCLA/SARA Section 311/312 | : Acute health hazard |
| CERCLA/SARA Section 313 | : Does not contain any components with reportable quantities. |
| California Proposition 65 | : This product does not contain substances listed under California Proposition 65. |
| California Cleaning Product Act to Know Act of 2017 (SB 258) | : This product is labeled in compliance with CA SB258. |

| Chemical Name | CAS Registry Number | Functional Purpose | List(s) |
|------------------------|---------------------|--------------------|----------------|
| Water | 7732-18-5 | Diluent | Not Applicable |
| Phosphoric Acid | 7664-38-2 | Cleaning Agent | 3 |
| Citric Acid | 112-34-5 | Cleaning Agent | Not Applicable |
| Glycol Ether | 5324-84-5 | Diluent | Not Applicable |
| Gluconic Acid | 526-95-4 | Cleaning Agent | Not Applicable |
| Triethanolamine | 102-71-6 | Buffer | Not Applicable |
| Nonylphenol Ethoxylate | 68412-53-3 | Cleaning Agent | Not Applicable |
| Colorant | Not Available | Dye | Not Applicable |

*refer to www.belimed.com/en-us/solutions/consumables-protect for electronic links to designated lists

The ingredients of this product are reported on the following inventories:

TSCA 8 (b) Inventory Status

All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

SECTION 16: ADDITIONAL INFORMATION

NFPA health hazard: 2

NFPA fire hazard: 0

NFPA reactivity: 0

Additional information: None

DISCLAIMER: The information provided on this sheet is not to be considered as warranty or quality specification. The information is given to provide general knowledge as to health and safety based on our understanding of safe handling, storage, transportation, disposal, and release. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or any process unless specified in the text.

This safety data sheet contains changes from the previous version in sections: 9

Prepared by: Belimed Inc.

Issue date: June 2, 2022