



Product Identifier: Rust Out Sour  
Revision Date: 05/24/2015

## SAFETY DATA SHEET

This SDS complies with 29 CFR 1910.1200 (Hazard Communication Standard)  
IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, and users of this product.

### 1. Identification

#### 1.1. Product identifier

|                         |               |
|-------------------------|---------------|
| <b>Product Identity</b> | Rust Out Sour |
| <b>Alternate Names</b>  | Rust Out Sour |
| <b>Product Code</b>     | 450-08        |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                           |                         |
|---------------------------|-------------------------|
| <b>Intended use</b>       | Commercial Laundry Sour |
| <b>Application Method</b> | See Label Instructions  |

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

|                     |  |
|---------------------|--|
| <b>Company Name</b> | Diamond Products Inc.<br>1216 Bozeman Ave.<br>Helena, MT 59601 |
|---------------------|--|

#### Emergency

|  |   |
|--|---|
| <b>24 hour Emergency Telephone No.</b> | Infotrac: 1 800-535-5053<br>Emergency: (406) 449-6570 |
|--|---|

|  |                |
|--|----------------|
| <b>Customer Service: Diamond Products Inc.</b> | (406) 449-6570 |
|--|----------------|

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

|                    |  |
|--------------------|--|
| Acute Tox. 4;H302  | Harmful if swallowed.                    |
| Skin Corr. 1B;H314 | Causes severe skin burns and eye damage. |
| Eye Dam. 1;H318    | Causes serious eye damage.               |

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**[Prevention]:**

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P301+312 IF SWALLOWED: Call a POISON CENTER/Doctor if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

**[Storage]:**

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations            | Weight %   | GHS Classification  | Notes  |
|---|------------|---|--------|
| Phosphoric acid<br>CAS Number: 0007664-38-2 | 1.0 – 10.0 | Skin Corr. 1B;H314 (> 25%)                                | [1][2] |
| Reducing Agent<br>CAS Number: Proprietary   | 1.0 – 10.0 | Acute Tox 3;H301<br>Skin Corr. 1B;H314<br>Eye Dam. 1;H318 | [1][2] |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.  |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.   |
| <b>Ingestion</b>  | Do NOT induce vomiting. Dilute product by giving large quantities of water or milk. Call your nearest poison control center for further action and seek medical attention immediately.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                  |  |
|------------------|--|
| <b>Overview</b>  | <u>EFFECTS OF OVEREXPOSURE</u><br><b>Skin:</b> Direct contact may result in irritation, reddening, swelling, and, if untreated, severe skin damage.<br><b>Eyes:</b> Contact may cause severe irritation and corneal damage, if untreated.<br><b>Ingestion:</b> May cause burns to the mouth, esophagus, and stomach.<br><b>Inhalation:</b> Aerosols and mists may severely damage contacted tissue and produce scarring. Exposure to high concentrations may cause pulmonary edema and chemical pneumonia.<br>See section 2 for further details. |
| <b>Eyes</b>      | Causes serious eye damage.   |
| <b>Skin</b>      | Causes severe skin burns and eye damage.   |
| <b>Ingestion</b> | Harmful if swallowed.  |

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Not Applicable

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hydrogen Fluoride vapors, hydrogen, toxic oxides of phosphorous  
Do not breathe mist / vapors / spray.

### 5.3. Advice for fire-fighters

Neutralize with alkaline substances such as soda ash or lime. Wear full protective clothing including self-contained breathing apparatus.

**ERG Guide No.** 154

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up**

Flush spills with copious quantities of water. Follow by neutralizing with sodium bicarbonate or soda ash, and rinse. Dispose of in accordance with local, state and federal regulations.

Neutralize residual product in the spill area using sodium carbonate or sodium bicarbonate.

## 7. Handling and storage

**7.1. Precautions for safe handling**

Avoid prolonged contact with skin. Avoid contact with strong alkalis, bleaches and light metals.

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Do not store near chlorine-containing compounds.

Incompatible materials: Avoid contact with chlorinated products, reducing agents, alkalis, reactive metals, and metal oxides.

Store away from oxidizers and alkalis.

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

No data available.

## 8. Exposure controls and personal protection

**8.1. Control parameters****Exposure**

| CAS No.      | Ingredient      | Source   | Value                      |
|--------------|-----------------|----------|----------------------------|
| Proprietary  | Reducing Agent  | OSHA     | 2.5 mg/m3                  |
|              |                 | ACGIH    | TLV: 2.5 mg/m3             |
|              |                 | NIOSH    | TLV: 2.5 mg/m3             |
|              |                 | Supplier | No Established Limit       |
| 0007664-38-2 | Phosphoric acid | OSHA     | TWA 1 mg/m3                |
|              |                 | ACGIH    | TWA: 1 mg/m3 STEL: 3 mg/m3 |
|              |                 | NIOSH    | TWA 1 mg/m3 ST 3 mg/m3     |
|              |                 | Supplier | No Established Limit       |

**Carcinogen Data**

| CAS No.      | Ingredient      | Source | Value   |
|--------------|-----------------|--------|---|
| Proprietary  | Reducing Agent  | OSHA   | Select Carcinogen: No   |
|              |                 | NTP    | Known: No; Suspected: No  |
|              |                 | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |
| 0007664-38-2 | Phosphoric acid | OSHA   | Select Carcinogen: No   |
|              |                 | NTP    | Known: No; Suspected: No  |
|              |                 | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;  |

**8.2. Exposure controls**

|                             |   |
|-----------------------------|---|
| <b>Respiratory</b>          | Use acid gas respirator.  |
| <b>Eyes</b>                 | Wear a full face shield if mixing or pouring this material.   |
| <b>Skin</b>                 | Safety boots and overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Use neoprene or rubber gloves or PVC.   |
| <b>Engineering Controls</b> | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |
| <b>Other Work Practices</b> | An eyewash fountain should be located in areas where the product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.   |

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Clear Violet Liquid  |
| <b>Odor</b>  | Irritating acidic  |
| <b>Odor threshold</b>                                  | Not Measured   |
| <b>pH</b>  | 1% solution: 2.0   |
| <b>Melting point / freezing point</b>                  | Not applicable   |
| <b>Initial boiling point and boiling range</b>         | 220°F  |
| <b>Flash Point</b>                                     | Non-flammable  |
| <b>Evaporation rate (Ether = 1)</b>                    | Not available  |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not applicable<br><b>Upper Explosive Limit:</b> Not applicable |
| <b>Vapor pressure (Pa)</b>                             | Not available  |
| <b>Vapor Density</b>                                   | Not available  |
| <b>Specific Gravity</b>                                | 1.11 g/ml  |
| <b>Solubility in Water</b>                             | Complete   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not applicable   |
| <b>Decomposition temperature</b>                       | Not available  |
| <b>Viscosity (cSt)</b>                                 | Not available  |
| <b>VOC Content</b>                                     | Not available  |

**9.2. Other information**

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

Contact with common metals may produce hydrogen gas in explosive mixtures.

### 10.4. Conditions to avoid

High temperatures, flames, and incompatibles.

Do not store near chlorine-containing compounds.

### 10.5. Incompatible materials

Avoid contact with chlorinated products, reducing agents, alkalis, reactive metals, and metal oxides.

### 10.6. Hazardous decomposition products

Hydrogen Fluoride vapors, hydrogen, toxic oxides of phosphorous

## 11. Toxicological information

### Acute toxicity

| Ingredient                     | Oral LD50,<br>mg/kg  | Skin LD50,<br>mg/kg  | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|--------------------------------|----------------------|----------------------|---------------------------------------|---|--------------------------------|
| Phosphoric acid - (7664-38-2)  | No data<br>available | No data<br>available | No data<br>available                  | No data<br>available                      | No data<br>available           |
| Reducing Agent – (Proprietary) | No data<br>available | No data<br>available | No data<br>available                  | No data<br>available                      | No data<br>available           |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description                       |
|-------------------------------|----------|--|
| Acute toxicity (oral)         | 4        | Harmful if swallowed.                    |
| Acute toxicity (dermal)       | ---      | Not Applicable                           |
| Acute toxicity (inhalation)   | ---      | Not Applicable                           |
| Skin corrosion/irritation     | 1B       | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1        | Causes serious eye damage.               |
| Respiratory sensitization     | ---      | Not Applicable                           |
| Skin sensitization            | ---      | Not Applicable                           |
| Germ cell mutagenicity        | ---      | Not Applicable                           |
| Carcinogenicity               | ---      | Not Applicable                           |
| Reproductive toxicity         | ---      | Not Applicable                           |
| STOT-single exposure          | ---      | Not Applicable                           |

|                        |     |                |
|------------------------|-----|----------------|
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard      | --- | Not Applicable |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

| Ingredient                     | 96 hr LC50 fish,<br>mg/l | 48 hr EC50 crustacea,<br>mg/l | ErC50 algae,<br>mg/l |
|--------------------------------|--------------------------|-------------------------------|----------------------|
| Phosphoric acid - (7664-38-2)  | Not Available            | Not Available                 | Not Available        |
| Reducing Agent – (Proprietary) | Not Available            | Not Available                 | Not Available        |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

### DOT (Domestic Surface Transportation)

|                                    |   |
|------------------------------------|---|
| 14.1. UN number                    | NA1760  |
| 14.2. UN proper shipping name      | NA1760, Compounds, cleaning liquid, (Phosphoric Acid & Ammonium Bifluoride), 8, III |
| 14.3. Transport hazard class(es)   | DOT Hazard Class: 8   |
| 14.4. Packing group                | III   |
| 14.5. Environmental hazards        |   |
| IMDG                               | Marine Pollutant: No  |
| 14.6. Special precautions for user | No further information  |

## 15. Regulatory information

|  |  |
|--|--|
| <b>Regulatory Overview</b>                 | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.                                |
| <b>Toxic Substance Control Act ( TSCA)</b> | All components of this material are either listed or exempt from listing on the TSCA Inventory.  |
| <b>WHMIS Classification</b>                | D2B E  |
| <b>US EPA Tier II Hazards</b>              | <b>Fire:</b> No<br><b>Sudden Release of Pressure:</b> No<br><b>Reactive:</b> No<br><b>Immediate (Acute):</b> Yes<br><b>Delayed (Chronic):</b> No |

**EPCRA 311/312 Chemicals and RQs (lbs):**

Ammonium Bifluoride (100.00)

Phosphoric acid ( 5,000.00)

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

Ammonium Bifluoride

Phosphoric acid

**Pennsylvania RTK Substances (>1%):**

Ammonium Bifluoride

Phosphoric acid

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Diamond Products, Inc., makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or the information herein is made hereunder. Diamond Products, Inc., shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

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