1. Identification

1.1. Product identifier

Product Identity
Rust Remover Plus™

Alternate Names
Concrete Cleaner, Rust Remover Plus™

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

Intended use
See Technical Data Sheet.

Application Method
See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name
Delux Cleaning Supply Inc. dba. PowerWash.com
2300 Cold Springs Rd
Fort Worth, TX 76106

24 hour Emergency Telephone No.
Chem-Tel 800-255-3924

Customer Service: Delux Cleaning Supply Inc. dba. PowerWash.com
+1 817-625-4213

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 3; H301
Toxic 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

H301 Toxic 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+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
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 victim 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.
P321 Specific treatment (see information on this label).
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.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td>50 - 75</td>
<td>Acute Tox. 3;H301 Skin Corr. 1B;H314</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0001341-49-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>10 - 25</td>
<td>Skin Corr. 1B;H314 (&gt; 25%) Eye Irrit. 2; H319: 10% ≤ C &lt; 25% Skin Irrit. 2; H315: 10% ≤ C &lt; 25%</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0007664-38-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxalic acid</td>
<td>10 - 25</td>
<td>Acute Tox. 4;H312 Acute Tox. 4;H302</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0000144-62-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>10-25</td>
<td>Acute Tox. 4;H302 Aquatic Chronic 2;H411</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Trade Secret</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.


*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.

Inhalation
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.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview
Acute: Skin: Major potential hazard. May cause severe burns with deep ulcerations. Eyes: May cause severe destruction and blindness. These effects can occur rapidly affecting all parts of the eye.
Chronic: Skin: repeated or prolonged skin contact would be expected to cause drying, cracking and inflammation of the skin (dermatitis).
INHALATION May irritate mucosal membranes. Under recommended conditions, vapor level will be to low to present inhalation hazard.
INGESTION Harmful if swallowed. Will cause burns to mouth and throat.
SKIN Causes skin burns.
EYES Corrosive! Causes burns and permanent injury to eye tissue. Can cause blindness. See section 2 for further details.

Eyes
Causes serious eye damage.

Skin
Causes severe skin burns and eye damage.

Ingestion
Toxic if swallowed.

5. Fire-fighting measures

5.1. Extinguishing media
Use extinguishing media suitable for the surrounding fire. If water is used, care should be taken since it can generate heat and spattering.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: High temperatures and fires may produce such toxic oxides as those from carbon, sulfur, and phosphorous.
Do not breathe mist / vapors / spray.
5.3. Advice for fire-fighters

Use flooding quantities of water as fog or spray to keep fire exposed containers cool. Extinguish fire using agents suitable for surrounding fire.

VENTILATION: As necessary to maintain concentration in air below 2 mg/m³ at all times.

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

Do not allow spills to enter drains or waterways.

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

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

7. Handling and storage

7.1. Precautions for safe handling

Use smallest amounts possible in designated areas with adequate ventilation. Keep containers closed when not in use. Empty containers may contain hazardous residue. Avoid generating mists. Transfer solutions using equipment which is corrosion resistant. Cautiously transfer into sturdy containers made of compatible materials. Never return contaminated material to its original container. Never add water to solution, always add solution to water and provide agitation.

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

7.2. Conditions for safe storage, including any incompatibilities

Do not store near chlorine-containing compounds.

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Protect from damage. Store away from incompatible materials. Avoid freezing.

Incompatible materials: Avoid contact with strong alkalies.

Store away from oxidizers and alkalines.

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

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000144-62-7</td>
<td>Oxalic acid</td>
<td>OSHA</td>
<td>TWA 1 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 1 mg/m3 STEL: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 1 mg/m3 ST 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0001341-49-7</td>
<td>Ammonium bifluoride</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0007664-38-2</td>
<td>Phosphoric acid</td>
<td>OSHA</td>
<td>TWA 1 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 1 mg/m3 STEL: 3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Trade Secret</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

### Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000144-62-7</td>
<td>Oxalic acid</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0001341-49-7</td>
<td>Ammonium bifluoride</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0007664-38-2</td>
<td>Phosphoric acid</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Trade Secret</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td>Supplier</td>
<td></td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Full face shield and goggles when there is potential for contact.

Skin Wear appropriate personal protective equipment to prevent skin contact. Acid resistant rubber gloves and apron. Use neoprene or rubber gloves or PVC.

Engineering Controls 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.

Other Work Practices 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Salty odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>1%</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>212 degrees F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>0</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td><strong>Lower Explosive Limit:</strong> None</td>
</tr>
<tr>
<td></td>
<td><strong>Upper Explosive Limit:</strong> None</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>100%</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>None</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Available</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Percent Volatile (by volume)</td>
<td>0 (@ 20 C)</td>
</tr>
</tbody>
</table>

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
No data available.

### 10.4. Conditions to avoid
Avoid contact with glass, autos, polished stone and decorative metal surfaces. Do not store near chlorine-containing compounds.

### 10.5. Incompatible materials
Avoid contact with strong alkalis

### 10.6. Hazardous decomposition products
High temperatures and fires may produce such toxic oxides as those from carbon, sulfur, and phosphorous.

## 11. Toxicological information

### Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride - (1341-49-7)</td>
<td>147.00, Rat - Category: 3</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Phosphoric acid - (7664-38-2)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxalic acid - (144-62-7)</td>
<td>7,500.00, Rat - Category: NA</td>
<td>20,000.00, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Trade Secret - (Trade Secret)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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).
12. Ecological information

12.1. Toxicity
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride - (1341-49-7)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Phosphoric acid - (7664-38-2)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Oxalic acid - (144-62-7)</td>
<td>24.00, Lepomis macrochirus</td>
<td>136.90, Daphnia magna</td>
<td>Not Available</td>
</tr>
<tr>
<td>Trade Secret- (Trade Secret)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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

| 14.1. UN number | DOT (Domestic Surface Transportation) | UN3264 |
| 14.2. UN proper shipping name | UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Ammonium Hydrogen Difluoride, Phosphoric Acid), 8, III |
| 14.3. DOT Hazard Class (es) | Corrosive liquid, acidic, inorganic, n.o.s., (Ammonium Hydrogen Difluoride, Phosphoric Acid) |
| 14.4. Packing group | IMDG: 8 Sub Class: Not Applicable |
| 14.5. Environmental hazards | Air Class: 8 |

14.6. Special precautions for user
No further information

15. Regulatory information

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification: D1B E
US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): 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
- Oxalic acid
- Phosphoric acid

Pennsylvania RTK Substances (>1%):

- Ammonium bifluoride
- Oxalic acid
- 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.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

The information contained herein is furnished without warranty of any kind. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

End of Document