

## SAFETY DATA SHEET

### 1. Product and Company Identification

|                                   |   |
|-----------------------------------|---|
| <b>Product Name</b>               | <b>REV 1 ALUMINUM CLEANER</b>   |
| <b>Product Number</b>             | <b>585</b>  |
| <b>Product Type</b>               | Mixture   |
| <b>Product Use</b>                | Liquid Alkaline Cleaner for Aluminum  |
| <b>Manufacturer/Supplier</b>      | National Purity, LLC.<br>6840 Shingle Creek Parkway, Suite #23<br>Brooklyn Center, MN 55430 |
| <b>Company Contact</b>            | 612-672-0022  |
| <b>Emergency Telephone Number</b> | 1-800-255-3924  |

### 2. Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 OSHA HCS**

Acute toxicity, Oral (Category 4) H302  
 Skin corrosion/irritation, (Category 1B) H314  
 Serious eye damage/irritation, (Category 1) H3318  
 Respiratory irritation (Category 3) H335  
 Acute aquatic toxicity, (Category 3) H402

**GHS Label elements, including precautionary statements**

**Pictogram**



**Signal word**

Danger

**Hazard Statements**

|      |  |
|------|--|
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H335 | May cause respiratory irritation.        |
| H402 | Harmful to aquatic life.                 |

**Precautionary Statements**

**Prevention**

|      |  |
|------|--|
| P260 | Do not breath mist, vapors, or spray.                                      |
| P264 | Wash hand and exposed skin thoroughly after handling.                      |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P273 | Avoid release to the environment.  |

**Response**

|                    |  |
|--------------------|--|
| P301+P310          | IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Drink 1-2 glasses of water or milk. Never give anything to an unconscious person. |
| P302+352+P362+P363 | IF ON SKIN, wash with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse.  |
| P305+P351+P338     | IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present.  |
| P337+P313          | If eye irritation persists: Get medical advice/attention.  |

P304+P340

IF INHALED: remove person to fresh air and keep comfortable for breathing.

**Storage/Disposal**

P403+233

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

P405

Store locked up.

P501

Dispose of contents/container in accordance with local, state and federal regulations.

### 3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed. Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

| Hazardous Components              | CAS#       | Classification               | %       |
|-----------------------------------|------------|------------------------------|---------|
| Sodium metasilicate pentahydrate  | 10213-79-3 | H302, H314, H318, H402       | 12-16 % |
| (Nonylphenoxy) polyethylene oxide | 9016-45-9  | H320, H313, H401             | 2-4%    |
| Potassium hydroxide               | 1310-58-3  | H301, H314, H318, H402, H412 | 1-2%    |

### 4. First Aid Measures

**Description of First Aid Procedures**

**General Advice**

Consult a physician. Show this SDS to the doctor.

**In Case of Eye Contact**

Flush with cool running water for 15 minutes. Remove contact lenses if possible. If irritation persists, get medical attention.

**In Case of Skin Contact**

Flush with cool water. If irritation occurs, get medical attention.

**If Ingested**

Drink one or two glasses of water,. **Do not induce vomiting.** Obtain medical attention. Never give anything by mouth to an unconscious person.

**If Inhaled**

Move person to fresh air. If breathing difficulty persists, consult a physician. Symptoms may be delayed.

**Notes to Physician**

**General advice**

Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

### 5. Fire-fighting Measures

**Flammable properties**

Not flammable.

**Extinguishing media**

Use materials designed for source of fire. Treat as an alkaline material.

**Protection of firefighters**

Firefighters should wear protective clothing including self contained breathing apparatus

**Hazardous combustion products**

May include and not limited to oxides of carbon, and nitrogen.

**Unusual Fire, Explosion hazards**

Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated..

### 6. Accidental Release Measures

**Personal precautions**

Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.

**Methods for containment**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers.

**Methods for cleaning up**

Before attempting clean up, refer to hazard data given above. Small spills may be mopped up and rinsed. Large spills may be absorbed with non reactive absorbent and placed in suitable , covered, labeled containers. Rinse area with water. Never return spill to original container for reuse.

**Environmental precautions**

Keep out of waterways. Dispose of contents/containers in accordance with local, state, and federal regulations.

**7. Handling and Storage**

**Precautions for Safe Handling**

Use good industrial hygiene practices when handling this material. Wash contaminated clothing before reuse.

**Conditions for Safe Storage**

Keep container closed when not in use. Keep out of reach of children. Store in cool dry place, locked up.

**8. Exposure Controls and Personal Protection**

**Exposure Limits**

| Ingredients                      | CAS#      | OSHA PEL                              | ACGIH TLV              |
|----------------------------------|-----------|---------------------------------------|------------------------|
| Sodium metasilicate              | 6834-92-0 | 15 mg/m <sup>3</sup> TWA (Total dust) |                        |
| (Nonylphenoxy)polyethylene oxide | 9016-45-9 | Not available                         |                        |
| Potassium hydroxide              | 1310-58-3 | Not available                         | 2mg/m <sup>3</sup> TLV |

**Engineering controls**

General ventilation normally adequate

**Personal protective equipment**

**Eye/Face protection**

Wear safety glasses with side shields if splash conditions exist.

**Hand protection**

Wear safety gloves.

**Skin and body**

As required by employer code.

**Respiratory protection**

Use a NIOSH approved respirator when exposure guidelines are exceeded.

**General hygiene considerations**

Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

|  |                     |
|--|---------------------|
| Appearance/form                              | Clear liquid        |
| Color  | Amber               |
| Odor   | Slight surfactant   |
| Odor threshold                               | Not established     |
| pH   | > 13 (concentrate)  |
| Melting/freezing point                       | Not established     |
| Initial Boiling point                        | ≈212° F. ( 100° C.) |
| Flash point                                  | None                |
| Evaporation rate                             | Not established     |
| Flammability                                 | Not flammable       |
| Upper/lower flammability or Explosive limits | Not established     |
| Vapor pressure                               | Not established     |
| Vapor density                                | Not established     |
| Specific gravity/density                     | ≈ 1.20              |
| Vapor density                                | Not established     |
| Solubility in water                          | Complete            |
| VOC  | < 1.0%              |
| % Volatile                                   | Approx. 80%         |

**Other Safety Information**

**10. Stability and Reactivity**

**Reactivity**

**Chemical Stability**

Stable under normal storage conditions.

**Hazardous reactions**

None known

|   |  |
|---|--|
| <b>Conditions to avoid</b>              | Do not mix with other chemicals.                               |
| <b>Incompatible materials</b>           | Strong acids, alkalais, strong oxidizing agents and amines.    |
| <b>Hazardous decomposition products</b> | May include but not limited to oxides of carbon, and nitrogen. |
| <b>Hazardous polymerization</b>         | Will not occur   |

## 11. Toxicological Information

|  |  |
|--|--|
| <b>Ingredients</b>                                     | <b>LC50</b>  |
| Sodium metasilicate                                    | Not available  |
| Nonylphenoxy polyethylene oxide                        | Not available  |
| Potassium hydroxide                                    | Not available  |
| <b>Ingredients</b>                                     | <b>LD50</b>  |
| Sodium metasilicate                                    | 1153 mg/kg (Oral-Rat), 770 mg/kg (Oral-mouse)                                  |
| Nonylphenoxy polyethylene oxide                        | 3310 mg/kg (Oral-rat), >2000mg/kg (dermal-rabbit)                              |
| Potassium hydroxide                                    | Not avaiabel   |
| <b>Effects of acute exposure</b>                       |  |
| <b>Eye</b>   | Will cause eye damage  |
| <b>Skin</b>  | Will cause severe skin burns   |
| <b>Ingestion</b>                                       | Harmful if swallowed. May cause corrosive damage to mouth, throat and stomach. |
| <b>Inhalation</b>                                      | May cause irritation of nose and throat.                                       |
| <b>Sensitization</b>                                   | Non hazardous.   |
| <b>Chronic effects of short and long Term exposure</b> | Prolonged exposure to skin may cause drying, defatting and irritation.         |
| <b>Carcinogenicity</b>                                 | Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.    |
| <b>Mutagenicity</b>                                    | Non hazardous.   |
| <b>Reproductive effects</b>                            | Non hazardous.   |
| <b>Teratogenicity</b>                                  | Non hazardous.   |

## 12. Ecological Information

|  |  |
|--|--|
| <b>Eco-toxicity</b>                    | Ecological effects for this product have not been analyzed. However, if spilled this product and any contaminated soil may be harmful to aquatic life. Sodium metasilicate is harmful to aquatic life in very low concentrations.<br>LC50 (Mosquito fish) = 530mg/L. LC50 (Waterflea) 48 hours = 113mg/L |
| <b>Environmental effects</b>           | Not Available  |
| <b>Aquatic toxicity</b>                |  |
| Nonylphenoxy polyethylene oxide        | LC 50 Fish: 10mg/L 96 hours  |
| <b>Persistence and Degradability</b>   |  |
| Sodium metasilicate                    | Will persist in aquatic and terrestrial systems  |
| <b>Bioaccumulation/accumulation</b>    | Not Available  |
| <b>Partition coefficient</b>           | Not Available  |
| <b>Mobility in environmental media</b> | Not Available  |
| <b>Chemical fate information</b>       | Not Available  |
| <b>Other adverse effects</b>           | Not Available  |

## 13. Disposal Considerations

|  |   |
|--|---|
| <b>Waste codes</b>                         | Not Available   |
| <b>Disposal instructions</b>               | Dispose in accordance with local, state, and federal regulations        |
| <b>Wastes from residues/unused product</b> | Containerize. Rinse area with water. Keep out of storm sewer/waterways. |
| <b>Contaminated packaging</b>              | Dispose in accordance with all applicable regulations.                  |

## 14. Transport Information

### Basic shipping requirements:

|                             |   |
|-----------------------------|---|
| <b>Proper shipping name</b> | Corrosive liquid, NOS (Contains potassium hydroxide, sodium metasilicate), 8, UN1760, PG II |
| <b>Hazard class</b>         | Corrosive liquid, 8   |
| <b>UN number</b>            | UN1760  |
| <b>Packing group</b>        | PG II   |
| <b>Special provisions</b>   | Not applicable  |

## 15. Regulatory Information

|  |  |                               |
|--|--|-------------------------------|
| <b>U.S federal regulations</b>   | This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012 |                               |
| <b>TSCA</b>  | All ingredients are listed on the Toxic Substances Control Act.  |                               |
| <b>WHMIS</b>   | Class E  |                               |
| <b>Cercla SuperFund 40CFR117.302</b><br>Potassium hydroxide  | This product contains a material with a Reportable Quantity (RQ)<br>RQ= 25,000 Lbs.  |                               |
| <b>SARA Title III Section 311&amp;312</b><br><b>SARA Title III Section 313</b>   | Immediate (Acute) Health Hazard<br>Product does not contain substances on the list of Toxic Chemicals per 40CFR372   |                               |
| <b>States Right to Know</b>  | Reportable chemicals:<br>Potassium hydroxide, Sodium metasilicate pentahydrate   |                               |
| <b>Inventory Status</b>  | <b>Inventory Name</b>  | <b>On Inventory (Yes/No)*</b> |
| <b>Countries</b>   |  |                               |
| U.S.   | CIL  | Yes                           |
| Canada   | DSL  | Yes                           |
| Europe   | NLP  | Yes                           |
| Australia  | AICS   | Yes                           |
| Japan  | ENCS   | Yes                           |
| China  | CIS  | Yes                           |
| <ul style="list-style-type: none"> <li>A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.</li> </ul> |  |                               |

## 16. Other Information

### HMIS RATING

#### HMIS Legend

|          |   |
|----------|---|
| Severe   | 4 |
| Serious  | 3 |
| Moderate | 2 |
| Slight   | 1 |
| Minimal  | 0 |

|                            |          |
|----------------------------|----------|
| <b>Health</b>              | <b>3</b> |
| <b>Flammability</b>        | <b>0</b> |
| <b>Reactivity</b>          | <b>0</b> |
| <b>Personal Protection</b> | <b>B</b> |

**Disclaimer**

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Issue date**

January 20, 2015

**Supersedes date**

Previous issues

**Reason for update**

Conform to GHS OSHA HCS 2012

**Expiration date**

January 20, 2018