SAFETY DATA SHEET

REAM

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: REAM
GENERAL USE: Granular Drain Opener & Maintainer
PRODUCT CODE: 3050

MANUFACTURER
Perform Manufacturing
1624 S. 45th St.
Kansas City, KS 66106
Emergency Phone: 800-423-9861
Customer Service: 913-722-1557
Transportation: 800-535-5053
E-Mail: sales@performmfg.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
   Skin Corrosion, Category 1A
   Serious Eye Damage, Category 1

GHS LABEL
This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Corrosion

SIGNAL WORD: DANGER
HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.
H333: May be harmful if inhaled.

PRECAUTIONARY STATEMENTS

Prevention:
P234: Keep only in original container.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: 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 supplemental first aid instructions on this label).
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.

**Storage:**

- P405: Store locked up.

**Disposal:**

- P501: Dispose of contents/container to an approved waste disposal plant.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Colored Pearls

**POTENTIAL HEALTH EFFECTS**

- **EYES:** Contact causes severe eye irritation.
- **SKIN:** Corrosive, causes skin burning.
- **INGESTION:** Toxic if swallowed.
- **INHALATION:** Over exposure can be toxic

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>&lt; 65</td>
<td>1310-73-2</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

- **EYES:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
- **SKIN:** Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Call a POISON CENTER or doctor / physician. Remove and wash contaminated clothing before re-use.
- **INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- **INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 5. FIRE FIGHTING MEASURES

- **FLAMMABLE CLASS:** Product does not burn
- **EXTINGUISHING MEDIA:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- **SENSITIVE TO STATIC DISCHARGE:** None
- **SENSITIVITY TO IMPACT:** None

### 6. ACCIDENTAL RELEASE MEASURES

- **GENERAL PROCEDURES:** No action should be taken involving and personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **RELEASE NOTES:** Take steps to avoid release into the environment, if safe to do so.
- **SPECIAL PROTECTIVE EQUIPMENT:** Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

### 7. HANDLING AND STORAGE
HANDLING: Ensure adequate ventilation. Wear personal protective equipment as required based on a risk assessment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

STORAGE: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food or drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>Supplier OEL</th>
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</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>NL</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>NL</td>
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EXPOSURE LIMITS

ENGINEERING CONTROLS: Use only with adequate ventilation. use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles with the use of any liquid products.

SKIN: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material or any chemical should be equipped with an eyewash and safety shower. Always wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid / Beads

ODOR: Fragranced

APPEARANCE: Colored Pearls

pH: 13 to 14

FLASH POINT AND METHOD: NA = Not Applicable

FLAMMABLE LIMITS: No data available

AUTOIGNITION TEMPERATURE: No data available

VAPOR PRESSURE: No data available

VAPOR DENSITY: 1.38 (Air =1)

BOILING POINT: NA = Not Applicable

FREEZING POINT: NA = Not Applicable

MELTING POINT: 318°C (604°F) lit.
10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable under recommended storage conditions.
POLYMERIZATION: None
CONDITIONS TO AVOID: No data available
POSSIBILITY OF HAZARDOUS REACTIONS: No data available
HAZARDOUS DECOMPOSITION PRODUCTS: No data available
INCOMPATIBLE MATERIALS: Strong oxidizing agents, Strong acids, Organic materials

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Causes serious eye irritation.
SKIN EFFECTS: Causes severe skin burns.
CHRONIC: No data available
SUBCHRONIC: No data available
CARCINOGENICITY
   IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
   NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
   OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
REPEATED DOSE EFFECTS: No data available
SENSITIZATION: Will not occur.
NEUROTOXICITY: No data available
GENETIC EFFECTS: No data available
REPRODUCTIVE EFFECTS: No data available
TARGET ORGANS: No data available
TERATOGENIC EFFECTS: No data available
MUTAGENICITY: No data available
SYNERGISTIC MATERIALS: No data available

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Solids, N.O.S.

TECHNICAL NAME: (Contains: Sodium Hydroxide)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1759

PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 1000 lbs

LABEL: Corrosive

OTHER SHIPPING INFORMATION: All products offered for domestic ground transportation that meet the following Exceptions for Class 8 (corrosive materials) will be packaged and shipped as "Limited Qty".

1. For corrosive materials in Packing Group II, inner packagings not over 1.0 L (0.3 gallon) net capacity each for liquids or not over 1.0 kg (2.2 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

2. For corrosive materials in Packing Group III, inner packagings not over 5.0 L (1.3 gallon) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Corrosive

Limited

Quantity

Ground

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute Health Hazard

313 REPORTABLE INGREDIENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

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TSCA (TOXIC SUBSTANCE CONTROL ACT)

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CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CLEAN WATER ACT: Sodium Hydroxide

16. OTHER INFORMATION
PREPARED BY: Kevin E Hall    Date Revised: 11/13/2014

REVISION SUMMARY: This SDS replaces the 11/13/2014 SDS.

<table>
<thead>
<tr>
<th>HMIS RATING</th>
<th>NFPA CODES</th>
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<td>HEALTH</td>
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<tr>
<td>FLAMMABILITY</td>
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<tr>
<td>PHYSICAL HAZARD</td>
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<tr>
<td>PERSONAL PROTECTION</td>
<td>C</td>
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