Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier
Product Name: Instant Power® Heavy Duty Drain Opener
Product Code: MSDS No. 1870, 1871

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Drain opener

1.3 Details of the supplier of the safety data sheet
Manufacturer: Scotch Corporation
1255 Viceroy
Dallas, TX 75247
United States
www.scotchcorp.com
mail@scotchcorp.com

Telephone (General): 1-800-334-2077

EU Supplier: Robimatic Ltd.
Sandall Stones Road
Kirk Sandall
Doncaster, England DN3 1QR
United Kingdom
robimatic@polypipe.com

Telephone (General): +44 (0) 1302-790-790
Fax: +44 (0) 1302-790-088

1.4 Emergency telephone number
- 1-800-424-9300 - CHEMTREC (USA)
- 1-703-527-3887 - CHEMTREC (International)

Section 2: Hazards Identification

EU/EEC
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture
CLP
- Skin Corrosion 1A - H314
- Serious Eye Damage 1 - H318

DSD/DPD
- Corrosive (C)
- R35

2.2 Label Elements
DANGER

Hazard statements • H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage

Precautionary statements

Prevention • P260 - Do not breathe mist/vapours/spray.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P321 - Specific treatment, see supplemental first aid information.
P363 - Wash contaminated clothing before reuse.
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.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal • P102 - Keep out of reach of children.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD

Risk phrases • R35 - Causes severe burns.
Safety phrases • S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 - Wear suitable protective clothing.
S37 - Wear suitable gloves.
S39 - Wear eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S1/2 - Keep locked up and out of the reach of children.

2.3 Other Hazards

CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
DSD/DPD • According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)
According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Skin Corrosion 1B - H314
Serious Eye Damage 1 - H318

2.2 Label elements
DANGER

Hazard statements • Causes severe skin burns and eye damage. - H314
Causes serious eye damage - H318

Precautionary statements

Prevention • Do not breathe mist/vapours/spray. - P260
Wash thoroughly after handling. - P264
Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
Specific treatment, see supplemental first aid information. - P321
Wash contaminated clothing before reuse. - P363
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
Immediately call a POISON CENTER or doctor/physician. - P310
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+P330+P331

Storage/Disposal • Store locked up. - P405
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501
Keep out of reach of children. - P102

2.3 Other hazards


Canada
According to WHMIS

2.1 Classification of the substance or mixture

WHMIS • Corrosive - E

2.2 Label elements

WHMIS

• Corrosive - E

2.3 Other hazards

WHMIS • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.
Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>CAS:1310-58-3 EC Number:215-181-3</td>
<td>0% TO 1%</td>
<td>Ingestion/Oral-Rat LD50 • 273 mg/kg</td>
<td>EU DSD/DPD: Annex I - Xn; R22 C; R35 EU CLP: Annex VI - Acute Tox. 3; H301 Skin Corr. 1A, H314 OSHA HCS 2012: Acute Tox 3 (orl), Skin Corr 1B, Eye Dam. 1</td>
<td>REACH Pre-registration number: 05-2114579206-43-xxxx</td>
</tr>
</tbody>
</table>

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- **Inhalation**: Administer oxygen if breathing is difficult. Move victim to fresh air. Call a physician or poison control center immediately.

- **Skin**: Immediately flush skin with water and vinegar for at least 20 minutes. Remove and isolate contaminated clothing. Call a physician or poison control center immediately.

- **Eye**: Immediately flush eyes with water for at least 20 minutes. If wearing contact lenses, remove first. Call a physician or poison control center immediately.

- **Ingestion**: Do NOT induce vomiting. Obtain medical attention immediately. Drink a couple of glasses of water or milk. If vomiting occurs, keep airway clear.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- **Notes to Physician**: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- **Suitable Extinguishing Media**: This product does not burn or support combustion. Use extinguishing agent suitable for type of surrounding fire. NFPA Class B extinguishers (Carbon Dioxide or foam).

- **Unsuitable Extinguishing Media**: None known.

5.2 Special hazards arising from the substance or mixture

- **Unusual Fire and Explosion Hazards**: Contact with some metals, particularly magnesium, aluminum, and zinc (galvanized), can generate explosive gas.
Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Read entire label before using product. Keep out of reach of children. Wear appropriate protective clothing. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

Emergency Procedures • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stop spill at source. Dike area and contain.

6.2 Environmental precautions

• Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Neutralize with weak acid and dilute with plenty of water. Flush area with large quantities of water and remove immediately.

6.4 Reference to other sections

• Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Wear appropriate protective clothing. Avoid breathing sprays and mists. Use only with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Do not take internally. Handle and open container with care. Keep container closed when not in use. Treat empty containers as hazardous.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Store locked up. Keep container/package tightly closed in a cool, well-ventilated place. Keep away from incompatible materials. Store upright. Do not store above 49C/120F.

7.3 Specific end use(s)

• Drain opener.

Section 8 - Exposure Controls/Personal Protection
## 8.1 Control parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potassium hydroxide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1310-58-3)</td>
<td>Ceilings</td>
<td>2 mg/m³ Ceiling</td>
<td>2 mg/m³ Ceiling</td>
<td>2 mg/m³ Ceiling</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td><strong>Sodium hydroxide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1310-73-2)</td>
<td>Curtains</td>
<td>2 mg/m³ Ceiling</td>
<td>2 mg/m³ Ceiling</td>
<td>2 mg/m³ Ceiling</td>
<td>Not established</td>
<td></td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Material</th>
<th>Exposure Limits/Guidelines</th>
<th>United Kingdom</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potassium hydroxide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1310-58-3)</td>
<td>Curtains</td>
<td>2 mg/m³ STEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sodium hydroxide</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1310-73-2)</td>
<td>Curtains</td>
<td>2 mg/m³ STEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 8.2 Exposure controls

### Engineering

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

- **Respiratory**
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

- **Eye/Face**
  - Wear chemical splash safety goggles.

- **Skin/Body**
  - Wear protective gloves and protective clothing impervious to this material.

- **General Industrial Hygiene Considerations**
  - Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Provide readily accessible eye wash stations & safety showers. Destroy contaminated leather articles. Launder or discard contaminated clothing.

- **Environmental Exposure Controls**
  - Avoid release to the environment. Follow best practice for site management and disposal of waste.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

---

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

**Material Description**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Data lacking</td>
</tr>
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</table>

**General Properties**

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Boiling Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>1.257 to 1.32 Water=1</td>
</tr>
<tr>
<td>Solvent Solubility</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

Water Solubility: Soluble

pH: 14

Viscosity: Data lacking

Oxidizing Properties: Data lacking
Instant Power® Heavy Duty Drain Opener

Volatile
<table>
<thead>
<tr>
<th>Property</th>
<th>Data lacking</th>
<th>Property</th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td></td>
<td>Vapor Density</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flammability
<table>
<thead>
<tr>
<th>Property</th>
<th>Data lacking</th>
<th>Property</th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Not relevant</td>
<td>UEL</td>
<td>Not relevant</td>
</tr>
<tr>
<td>LEL</td>
<td>Not relevant</td>
<td>Autoignition</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Environmental
<table>
<thead>
<tr>
<th>Property</th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

9.2 Other Information
- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity
- Reacts with - Acids.

10.2 Chemical stability
- Stable

10.3 Possibility of hazardous reactions
- Hazardous polymerization will not occur. May react violently with: Acids.

10.4 Conditions to avoid
- Incompatible materials. Excess heat.

10.5 Incompatible materials
- Incompatible Materials: Aluminum, tin, lead, zinc, and it's alloys, all acids, sugars, alcohols, chlorine, leather, wool, phosphorous, permanganates, chromates and peroxides.

10.6 Hazardous decomposition products
- Toxic oxides of potassium, Sodium Oxide & Hydroxide, Potassium Oxide & Hydroxide from heating.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (18% TO 28%)</td>
<td>1310-73-2</td>
<td>Irritation: eye-rbt 1 mg/30S rinse SEV; skin-rbt 500 mg/24H SEV</td>
</tr>
<tr>
<td>Potassium hydroxide (0% TO 1%)</td>
<td>1310-58-3</td>
<td>Acute Toxicity: orl-rat LD50:273 mg/kg; Irritation: eye-rbt 1 mg/24H rinse MOD; skin-hmn 50 mg/24H SEV</td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP•Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP•Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP•Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP•Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP•Skin Corrosion 1A</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Skin Corrosion 1B</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP•Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP•Classification criteria not met</td>
</tr>
</tbody>
</table>
Instant Power® Heavy Duty Drain Opener

OSHA HCS 2012 • Classification criteria not met
EU/CLP • Classification criteria not met

STOT-SE
OSHA HCS 2012 • Classification criteria not met
EU/CLP • Classification criteria not met

Toxicity for Reproduction
OSHA HCS 2012 • Classification criteria not met
EU/CLP • Classification criteria not met

Respiratory sensitization
OSHA HCS 2012 • Classification criteria not met
EU/CLP • Classification criteria not met

Serious eye damage/Irritation
OSHA HCS 2012 • Classification criteria not met
EU/CLP • Classification criteria not met

Route(s) of entry/exposure
• Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation
Acute (Immediate)
• May cause corrosive burns - irreversible damage. May cause damage to upper respiratory tract and lung tissue. Can cause difficulty breathing, low blood pressure, dizziness, bluish skin color and lung congestion.

Chronic (Delayed)
• Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin
Acute (Immediate)
• Causes severe skin burns and eye damage.

Chronic (Delayed)
• Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye
Acute (Immediate)
• Causes serious eye damage including severe burns, redness, tearing, blurred vision and blindness.

Chronic (Delayed)
• Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion
Acute (Immediate)
• Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes. Can cause serious burns to the mouth, esophagus, stomach and other tissues.

Chronic (Delayed)
• Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Carcinogenic Effects
• The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

Key to abbreviations
LD = Lethal Dose
SEV = Severe
MLD = Mild
TD = Toxic Dose
MOD = Moderate

Section 12 - Ecological Information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Dosage</th>
<th>Species</th>
<th>Duration</th>
<th>Results</th>
<th>Exposure Conditions</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>196 mg/L</td>
<td>Fish: NDA</td>
<td>96 Hour(s)</td>
<td>LC50</td>
<td>NDA</td>
<td>Sodium hydroxide</td>
</tr>
<tr>
<td>40.4 mg/L</td>
<td>Crustacea: NDA</td>
<td>48 Hour(s)</td>
<td>LC50</td>
<td>NDA</td>
<td>Sodium hydroxide</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
• Material data lacking.

12.3 Bioaccumulative potential
• Material data lacking.
12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

---

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

- **Product waste**: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- **Packaging waste**: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN1824</td>
<td>Sodium hydroxide solution</td>
<td>8</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>UN1824</td>
<td>SODIUM HYDROXIDE SOLUTION</td>
<td>8</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1824</td>
<td>Sodium Hydroxide Solution</td>
<td>8</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>UN1824</td>
<td>Sodium Hydroxide Solution</td>
<td>8</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1824</td>
<td>Sodium Hydroxide Solution</td>
<td>8</td>
<td>II</td>
<td>NDA</td>
</tr>
</tbody>
</table>

- **14.6 Special precautions for user**: None known.

- **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**: Not relevant.

- **14.8 Other information**

  DOT - According to 49 CFR 172.101 Appendix A Sodium Hydroxide has a reportable quantity of 1000lbs (454kg). According to 49 CFR 172.101 Appendix A Potassium Hydroxide has a reportable quantity of 1000lbs (454kg).

### Section 15 - Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- **SARA Hazard Classifications**: Acute

#### 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

### Section 16 - Other Information
Instant Power® Heavy Duty Drain Opener

Relevant Phrases (code & full text)

- H301 - Toxic if swallowed
- R22 - Harmful if swallowed.

Last Revision Date: 4/March/2015
Preparation Date: 19/June/2013

Disclaimer/Statement of Liability
- The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Key to abbreviations
NDA = No data available