SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AgrowSil™
GENERAL USE: Agricultural liming.
CHEMICAL FAMILY: Calcium and magnesium silicates and oxides.
GENERIC NAME: Harsco Minerals Final Aggregate

MANUFACTURER
Harsco Metals and Minerals
359 North Pike Road
Sarver, PA 16055
Customer Service: (800) 850-0527
E-Mail: agrowsil@harsco.com

24 HR. EMERGENCY TELEPHONE NUMBERS
724-353-0055

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
Not Classified.

Environmental:
Not Classified.

Physical:
Not Classified.

GHS LABEL

HAZARD STATEMENTS

PRECAUTIONARY STATEMENTS
Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection.
9517ZE5E: P264: Wash hands thoroughly after handling.

Disposal:
0470BXRW: Dispose of unused material in accordance with local/regional/national regulations.

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS: AgrowSil™ is a granular brownish grey solid. Short-term exposures to AgrowSil™ are not likely to cause serious harm. Elevated pH in moist conditions may cause irritation to the skin and eyes, or aggravate existing conditions. Dust can cause irritation of the respiratory system or may aggravate existing respiratory system disease.
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Principal Components</th>
<th>CAS #</th>
<th>Percent (typical)</th>
<th>ACGIH TLV Values</th>
<th>OSHA PEL Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>7440-70-2</td>
<td>30%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>12%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-95-4</td>
<td>7%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>4%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>3%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Silica, Crystalline</td>
<td>14808-60-7</td>
<td>2%</td>
<td>0.025 mg/m³ (resp.)</td>
<td>30 / (%silica + 2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 / (%silica + 2)</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>1%</td>
<td>0.1 mg/m³ (inhal.)</td>
<td>C 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.02 mg/m³ (resp.)</td>
<td></td>
</tr>
<tr>
<td>Titanium</td>
<td>7440-32-6</td>
<td>0.5%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0.2%</td>
<td>0.5 mg/m³</td>
<td>TWA 1.0 mg/m³</td>
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<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>0.2%</td>
<td>10 mg/m³ (inhal.)</td>
<td>TWA 15 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ (resp.)</td>
<td>TWA 5 mg/m³ (resp.)</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>0.04%</td>
<td>1.5 mg/m³ (inhal.)</td>
<td>TWA 1 mg/m³</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: If contact with eyes occurs, flush with water for 15 minutes, occasionally lifting upper and lower lids. Consult a physician.

SKIN: Wash skin surfaces that have been in contact with AgrowSil™. Apply a skin lotion if redness persists.

INGESTION: Rinse mouth thoroughly if ingested. Do not induce vomiting. If discomfort continues, consult a physician.

INHALATION: Move to fresh air. If discomfort continues, consult a physician.

NOTES TO PHYSICIAN: Treat symptomatically.

COMMENTS: Show this Safety Data Sheet to physician in attendance.
5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** This product is non-combustible.

**GENERAL HAZARD:** None known

**EXTINGUISHING MEDIA:** Use fire-extinguishing media appropriate for surrounding materials.

**FIRE FIGHTING PROCEDURES:** Move product containers from fire area if it can be done without risk. Cool containers by flooding with water until heat is dissipated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

6. ACCIDENTAL RELEASE MEASURES

**LARGE SPILL:** Avoid runoff into storm sewers and ditches. Collect spillage using appropriate equipment. Dispose of collected materials in accordance with Federal, State and local regulations.

**GENERAL PROCEDURES:** Never return spillage and clean-up materials to original product containers.

**RELEASE NOTES:** In the unused form, the material is non-hazardous as defined in state and federal regulations.

**COMMENTS:** Spillage into water may result in an elevated pH level. Do not attempt to wash spillage into sewers or storm water drains.

7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep material dry until used. Normal temperature and pressure do not affect material.

**HANDLING:** Follow Safety Data Sheet and label precautions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields. Use tight fitting googles if dust is generated.

**SKIN:** Use protective gloves. Wear suitable protective clothing.

**WORK HYGIENIC PRACTICES:** Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

**COMMENTS:** Proper and safe use of the material is solely the purchaser's responsibility. The manufacturer extends no warranties and makes no representations as to the suitability of the product for the purchaser's intended purpose or the consequences of purchaser's actions.

9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** None

**COLOR:** Grey powder

**pH:** 10 to 12

**SOLUBILITY IN WATER:** Low solubility in water; can raise pH of water to values of 11 to 12 due to alkaline nature.

**SPECIFIC GRAVITY:** 2.8

**COMMENTS:** For additional information contact manufacturer.

10. STABILITY AND REACTIVITY

**STABILITY:** This product is stable and non-reactive under normal conditions of use, storage and transport.

**CONDITIONS TO AVOID:** Unintended mixing with water can result in elevated pH.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**INCOMPATIBLE MATERIALS:** Strong acids.
11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: May cause eye irritation.

SKIN EFFECTS: May cause skin irritation.

CARCINOGENICITY

IARC: Stainless steel slag is not listed by IARC.

NTP: Stainless steel slag is not listed by the National Toxicology Program in their Annual Report.

OSHA: Stainless steel slag is not listed by NIOSH on their Occupational Cancer List.

Notes: ACGIH Carcinogens

- Aluminum (CAS 7429-90-5) A4 Not classifiable as a human carcinogen.
- Calcium (CAS 7440-70-2) No designation listed.
- Chromium (CAS 7440-47-3) A4 Not classifiable as a human carcinogen.
- Crystalline Silica (CAS 14808-60-7) A2 Suspected human carcinogen.
- Iron (CAS 7439-89-6) No designation listed.
- Magnesium (CAS 7439-95-4) No designation listed.
- Manganese (CAS 7439-96-5) A4 Not classifiable as a human carcinogen.
- Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen.
- Silicon (CAS 7440-21-3) No designation listed.
- Sulfur (CAS 7704-34-9) No designation listed.
- Titanium (CAS 7440-32-6) A4 No designation listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

- Aluminum (CAS 7429-90-5) Not listed.
- Calcium (CAS 7440-70-2) Not listed.
- Crystalline Silica (CAS 14808-60-7) Group 1. Monographs 68 and 100C (2012).
- Iron (CAS 7439-89-6) Not listed.
- Magnesium (CAS 7439-95-4) Not listed.
- Manganese (CAS 7439-96-5) Not listed.
- Silicon (CAS 7440-21-3) Not listed.
- Sulfur (CAS 7704-34-9) Not listed.
- Titanium (CAS 7440-32-6) Not listed.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

ECOTOXICOLOGICAL INFORMATION: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

BIOACCUMULATION/ACCUMULATION: This product is not bioaccumulating.

DISTRIBUTION: Not Available

AQUATIC TOXICITY (ACUTE): None known

CHEMICAL FATE INFORMATION: Not Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

GENERAL COMMENTS: TCLP testing of unused product indicates that it is not hazardous waste by characteristic.
14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

OTHER SHIPPING INFORMATION: Unused product is not regulated as a hazardous material by DOT.

COMMENTS: Unused product is not regulated as dangerous goods by IATA, IMDG or TDG.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Hazardous Chemical.

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: No CHRONIC: Yes

313 REPORTABLE INGREDIENTS: Aluminum oxide (CAS 1344-28-1)

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None

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

CERCLA RQ: None

CLEAN AIR ACT

40 CFR PART 68—RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: None

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119—PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

RCRA STATUS: Not regulated.

OSHA HAZARD COMM. RULE: Regulated.

16. OTHER INFORMATION

Date Prepared: 03/19/2015

HMIS RATING

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
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<tr>
<td>PERSONAL PROTECTION</td>
<td>B</td>
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NFPA CODES

1 0 1 0