
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AgrowsilPro
SYNONYMS: Furnace Slag, Ladle Slag, C-Fines
PRODUCT CODES: NA

MANUFACTURER: Harsco Metals & Minerals
ADDRESS: P. O. Box 7408 Old #5 Dump Track Steelton, PA 17113

EMERGENCY CONTACT: Kim Papania
EMERGENCY PHONE: 724-353-0055

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PRODUCT USE: Aggregate, Soil Ammendment
PREPARED BY: Jennifer S. Rederick

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS NO.</u>	<u>% WT</u>
Calcium Oxide	1305-78-8	<40
Iron Oxide	1309-37-1	<30
Magnesium Oxide	1309-48-4	<15
Silicon Dioxide	7631-86-9	<20
Aluminum Oxide	1344-28-1	<30
Manganese Oxide	1317-35-7	<10

	<u>NIOSH REL-TWA</u> <u>mg/m3</u>	<u>OSHA PEL-TWA</u> <u>mg/m3</u>
Calcium Oxide	2	5
Iron Oxide	5	10
Magnesium Oxide	10	15
Silicon Dioxide	6	80/%Si
Aluminum Oxide	na	15(total)*
Manganese Oxide	na	5

*5 mg/m3 respirable

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Eye contact, Skin contact, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation of the eyes

SKIN: May cause irritation of the skin

INGESTION: May cause internal obstruction

INHALATION: May cause irritation of the respiratory tract

SECTION 3: HAZARDS IDENTIFICATION continued...

ACUTE HEALTH HAZARDS:

May cause irritation of the eyes, skin and respiratory tract

Welding, burning or grinding may generate metal particulate or elemental oxide fumes; this may result in "metal fume fever".

CHRONIC HEALTH HAZARDS:

Chronic inhalation of dust may cause pneumonia-like symptoms or granulomas

CARCINOGENICITY

OSHA: na

ACGIH: na

IARC: na

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with water to remove foreign body. Seek medical attention if irritation persists.

SKIN: Wash skin with soap and water. Seek medical attention if irritation persists.

INGESTION: Seek medical attention; do not induce vomiting

INHALATION: Remove person to fresh air. Seek medical attention if respiratory irritation persists.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: na

AUTOIGNITION TEMPERATURE: na

EXTINGUISHING MEDIA: use appropriate extinguishing media for surrounding material(s)

HAZARDOUS DECOMPOSITION PRODUCTS: na

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Wear sufficient respiratory protection and protective clothing to minimize inhalation, skin and eye exposure. Collect the material and recycle or dispose of according to local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Avoid creating dusty conditions. Wear appropriate protective clothing/equipment to minimize inhalation, skin and eye contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: use with general ventilation to avoid dusty conditions

RESPIRATORY PROTECTION: particulate mask

EYE PROTECTION: protective goggles

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION continued....

SKIN PROTECTION: gloves

WORK HYGIENIC PRACTICES: wash hands before eating, drinking or smoking

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light to dark grey rock-type material of various sized particles

ODOR: na

PHYSICAL STATE: Solid

pH AS SUPPLIED: 10-12

BOILING POINT: na

MELTING POINT: 1300-1400 C

FREEZING POINT: na

SPECIFIC GRAVITY : na

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: na

PERCENT SOLIDS BY WEIGHT: >90%

SECTION 10: STABILITY AND REACTIVITY

STABILITY: stable under normal conditions; material may expand when exposed to moisture

CONDITIONS TO AVOID: excessive dust generation

INCOMPATIBILITY: na

HAZARDOUS DECOMPOSITION : na

HAZARDOUS POLYMERIZATION: na

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: na

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: na

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: dispose of in accordance with local regulations

RCRA HAZARD CLASS: na

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Hazard classification and placard not required

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: This MSDS is prepared to safeguard the health of workers and to comply with the requirements of 29CFR1910.1200. Consult your supervisor before working with this material if you do not understand any of the information. The data supplied in the MSDS is, to the best of our knowledge, accurate and reliable. Harsco Metals & Minerals is not liable for any loss or damage arising of the use thereof.