

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Slag

Product Identities: Granulated Blast-Furnace Slag, Iron Slag, Granular Pig Iron Slag, Water Granulated Slag, Water Granulated Blast-Furnace Slag, Slag cement

Supplier:

Diversified Minerals Inc.
1135 E. Wooley Road
Oxnard CA, 93030

Information:

(888) 364-9595




**Poison Control System:
(800) 222-1222**

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS RN	ACGIH TLV (mg/m ³)	OSHA-PEL (mg/m ³)
Silica, amorphous	7631-86-9	10	2
Calcium compounds	1305-78-8	2	5
Magnesium compounds	1309-48-4	10	5(R) 15(T)
Aluminum compounds	1344-28-1	10	(R) 5 (T) 15
Sulfur compounds	7446-09-5	5	13
Silica	14808-60-7	0.1	(R)3 (T)10
Inert or nuisance dust	- - -	(R)3 (T)10	(R)5 (T)15

Slag is a partially vitreous by-product of smelting ore to separate metals from the unwanted impurities. It can usually be considered to be a mixture of metal oxides and silicon dioxide. However, slag can contain trace amounts of metal sulfides and metal atoms in the elemental form.

SECTION 3: HAZARD IDENTIFICATION

	WARNING	 Respiratory Protection  Eye Protection
	<p>Irritant: Causes eye, skin and inhalation irritation</p> <p>Use proper engineering controls, work practices, and personal protective equipment to prevent exposure to wet or dry product.</p> <p>Read MSDS for details.</p>	

SECTION 3: HAZARD IDENTIFICATION (continued)

Emergency Overview: Slag is a solid, white, powder with a slight sulfur odor. It is not combustible or explosive. A single, short-term exposure to the dry powder presents little or no hazard.

Potential Health Effects:

Eye Contact: Airborne dust may cause immediate or delayed irritation. Eye contact with large amounts of slag can cause moderate eye irritation, redness and burning. Eye exposures require immediate first aid to prevent damage to eye.

Skin Contact: Slag may cause dry skin, discomfort, irritation and dermatitis.

Dermatitis: Slag is capable of causing dermatitis by irritation. Skin affected by dermatitis may include symptoms of redness, itching, rash, scaling and cracking. Irritant dermatitis is caused by the physical properties of slag including moisture and abrasion.

Inhalation (acute): Breathing dust may cause nose, throat and/or lung irritation, including coughing or choking, depending on the degree of exposure.

Inhalation (chronic): The risk of injury depends on the duration and level of exposure.

Silicosis: The product may contain trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, a seriously disabling and fatal lung disease.

Carcinogenicity: Slag is not listed as a carcinogen by IARC or NTP; however slag may contain trace amounts of crystalline silica and/or metals that are classified by IARC and NTP as known human carcinogens.

Ingestion: Do not ingest slag. Although ingestion of small quantities of slag is not known to be harmful, ingestion of large quantities may cause an obstruction causing pain and distress in the digestive tract. Can contain trace amount of toxic metals.

Medical Conditions Aggravated by Exposure: Individuals with lung disease (e.g. bronchitis, asthma, emphysema, COPD, pulmonary disease) can be aggravated by exposure.

SECTION 4: FIRST-AID MEASURES

Eye Contact: Rinse eyes thoroughly with water for at least 15 minutes, including under lids to remove all particles. Seek medical attention for discomfort or if irritation or other symptoms do not subside.

Skin Contact: Wash with cool water and pH neutral soap or a mild skin detergent. Seek medical attention for rash, irritation, dermatitis and prolonged unprotected exposures to wet slag.

Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

SECTION 4: FIRST-AID MEASURES (continued)

Ingestion: Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flashpoint & Method: Non-combustible

General Hazard: Avoid breathing dust.

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Firefighting Equipment: Slag poses no fire-related hazard.

Combustion Products: In excess of 1000°C compounds will break down into their constituent oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General: Place spilled material into a container. Avoid actions that cause the slag to become airborne. Avoid inhalation of slag and direct contact with skin. Wear appropriate Personal Protective Equipment (PPE) as described in section 8 below.

Waste Disposal: Dispose of slag according to Federal, State, Provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

General: Handle with care and use appropriate control measures. Keep dry until used.

Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck or other storage container or vessel that stores or contains slag. Slag can build up or adhere to the walls of a confined space. The slag can suddenly release, collapse, or fall unexpectedly.

Usage: Cutting, crushing, sanding or grinding drywall, hardened cement, concrete or other crystalline silica bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression and Personal Protective Equipment (PPE) described in Section 8 below.

Housekeeping: Avoid actions that cause slag to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8 below.

Storage Temperature: Unlimited.

Storage Pressure: Unlimited.

Storage Moisture: Keep dry.

Clothing: Promptly remove and launder clothing that is dusty or wet with slag. Thoroughly wash skin after exposure to slag.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use local exhaust and general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection: Under ordinary circumstances no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.

Eye Protection: Wear ANSI approved glasses or safety goggles when handling dust or wet slag to prevent contact with eyes. Wearing contact lenses when using slag, under dusty conditions, is not recommended.

Skin protection: Wear gloves, boot covers and protective clothing impervious to water to prevent skin contact. Do not rely on barrier creams, in place of impervious gloves. Remove clothing and PPE that become saturated with wet slag and immediately wash exposed areas.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (powder)	Evaporation Rate:	NA
Appearance:	White	pH (in water):	9.0-11.5
Odor:	Slight sulfur odor	Boiling Point:	>1000°C
Vapor Pressure:	NA	Freezing Point:	None, solid
Vapor Density:	NA	Viscosity:	None, solid
Specific Gravity	2.8-3.0	Solubility in water:	Slightly soluble

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable. Keep dry until use. These products may react with water, resulting in a slight release of heat, depending upon the amount of lime (calcium oxide) present. Avoid contact with incompatible materials.

Incompatibility: Slag is incompatible with acids, and strong oxidizing agents.

Hazardous Polymerization: None.

Hazardous Decompositions: Will not spontaneously occur. Avoid exposure to acids. Product exposed directly to acids may release hydrogen sulfide. Hydrogen sulfide is a hazardous, toxic and poisonous gas.

SECTION 11 AND 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For questions regarding toxicological and ecological information refer to contact information in Section 1.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with Federal, State, Provincial and Local regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not classified as a Hazardous material under US D.O.T or Canadian TDG regulations.

SECTION 15: REGULATORY INFORMATION

OSHA/MSHA Hazard Communication: This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program

CERCLA/Superfund: This product is not listed as a CERCLA hazardous substance.

EPCRA SARA Title III: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a "hazardous substance" and a delayed health hazard.

EPCRA SARA Section 313: This product does not contain any of the substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

California Proposition 65: WARNING: This material may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

General Abbreviations:

>	Greater than	NFPA	National Fire Protection Association
<	Lesser than	NIOSH	National Institute for Occupational Safety and Health
ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS RN	Chemical Abstracts Reference Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensations and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	pH	Negative log of hydrogen ion
CL	Ceiling Limit	PPE	Personal Protective Equipment
DOT	Department of Transportation	R	Respirable Particulate
g/cm ³	Grams per cubic centimeter	RCRA	Resource Conservation and Reauthorization Act
HEPA	High-Efficiency Particulate Air	SARA	Superfund Amendments and Reauthorization Act
HMS	Hazardous Materials Identification Systems	T	Total Particulate
IARC	International Agency for Research on Cancer	TDG	Transportation of Dangerous Goods
mg/m ³	Milligrams per cubic meter	TLV	Threshold Limit Value

SECTION 16: OTHER INFORMATION (continued)

MSDS	Material Safety Data Sheet	TWA	Time Weighted Average (8 hour)
MSHA	Mine Safety and Health Administration	WHMIS	Workplace Hazardous Materials Information System
NA	Not Applicable	---	---

This MSDS (Section 1-16) was revised on January 14, 2013.

An electronic version of this MSDS is available at: www.dmicement.com

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