

Updated: 07/01/2016

MSDS Sheet – OLIVINE GRAINS

I. Product Identification and Use

Product Name: Olivine Grains

Synonyms: Magnesium Iron Silicate

Company Identification

Company : Maxworth Minerals India Pvt Ltd.
 Address : No:48-14-116\6, Lakshmi Royal Plaza, 4th Floor,
 Resapuvanipalem, Visakhapatnam-530003, India.
 Telephone Number : +91-891-2566263
 E-mail address : enquiry@maxworthgroup.com.au

II. Composition

CAS#/EINECS#	Component	Percentage
	Olivine	
	gO	49%
	SiO ₂	21%
	Fe ₂ O ₃	8%
	CaO	1%
1317-71-1 / 215-281-7		> 99.3%

EU Classification
(67/548/EEC)

Not Applicable

Refer to section XVI for further information on EU Classification.

See Section VIII for occupational exposure limit information.

III. Hazards Identification.

This product is a chemically inert, non-combustible mineral.

EMERGENCY OVERVIEW WARNING! Excessive inhalation of dust may cause mucous membrane and respiratory irritation and lung injury with symptoms of shortness of breath and reduced pulmonary function. Risk of injury is dependent on the duration and level of exposure. A single exposure will not result in serious adverse effects. See "Health Hazards" in Section XI for detailed information.

Avoid creating dust when handling, using or storing. Use with adequate ventilation to keep exposure below recommended exposure limits.

EU Classification of Substance/Preparation: Not classified as a dangerous preparation.

IV. First Aid Measures

Gross Inhalation: Remove victim to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get prompt medical attention.

Skin Contact: No first aid should be needed since dermal contact with this product does not affect the skin. Wash exposed skin with soap and water before breaks and at the end of the shift.

291 Milperra Road, Revesby, NSW, 2212 (PO Box 360, Revesby North, NSW, 2212)

Tel: (02) 9792 2733 Fax: (02) 9792 2866 Email: mail@burwell.com.au Website: www.burwell.com.au

Eye Contact: Flush the eyes immediately with large amounts of running water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.

Ingestion: If large amounts are swallowed, get immediate medical attention.

V. Firefighting Measures

Extinguishing Media: This product will not burn but is compatible with all extinguishing media. Use any media that is appropriate for the surrounding fire.

Special Fire Fighting Procedures: None required with respect to this product. Firefighters should always wear self-contained breathing apparatus for fires indoors or in confined areas.

Unusual Fire and Explosion Hazards: None.

VI. Accidental Release Measures

Wear appropriate protective equipment. If uncontaminated, collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. If contaminated: a) use appropriate method for the nature of contamination, and b) consider possible toxic or fire hazards associated with the contaminating substances. Collect for appropriate disposal.

VII. Handling & Storage

Avoid breathing dust. Use normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust. Use good housekeeping in storage and use areas to prevent accumulation of dust in work area.

Use adequate ventilation and dust collection. Maintain, use, clean and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment.

Laundry clothing that has become dusty. Empty containers (bags, bulk containers, storage tanks, etc.) retain product residue and must be handled in accordance with the provisions of this Material Safety Data Sheet. WARN and TRAIN employees in accordance with state and federal regulations.

WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS AND USERS IN CASE OF RESALE) BY POSTING, AND OTHER MEANS, OF THE HAZARDS AND OSHA PRECAUTIONS AND ANY OTHER APPLICABLE REGULATORY PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT OSHA PRECAUTIONS.

VIII. Exposure Controls / Personal Protection

Exposure Limits

Definitions:

MSHA means Mine Safety and Health Administration.

NIOSH means National Institute for Occupational Safety and Health.

OSHA means Occupational Safety and Health Administration.

PEL means OSHA Permissible Exposure Limit.

REL means the NIOSH Recommended Exposure Limit.

TLV means American Conference of Governmental Industrial Hygienists (ACGIH)

Threshold Limit Value. TWA means time-weighted average.

Olivine: **PEL** - 5mg/m³ TWA (respirable fraction), 15 mg/m³ TWA (total dust) as Particulates not Otherwise Classified

TLV- None established (refer to ACGIH guidance for Particulates (insoluble or poorly soluble) Not Otherwise Specified)

MSHA - 5mg/m³ TWA (respirable fraction), 15 mg/m³ TWA (total dust) as Particulates not Otherwise Classified

Ventilation: Use local exhaust as required to maintain exposures below applicable occupational exposure limits. See also ACGIH "Industrial Ventilation - A Manual for Recommended Practice" (current edition). Control of exposure to dust must be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general or local exhaust ventilation and substitution of less toxic materials).

Respiratory Protection: When effective engineering controls are not feasible, or while they are being implemented, appropriate respiratory protection must be used. Use appropriate respiratory protection for respirable particulates based on consideration of airborne workplace concentrations and duration of exposure arising from intended end use. Refer to the most recent standards of ANSI (Z88.2), OSHA (29 CFR 1910.134), MSHA (30 CFR Parts 56 and 57) and NIOSH Respirator Decision Logic.

Gloves: Protective gloves recommended.

Eye Protection: Safety glasses or goggles recommended.

Other Protective Equipment/Clothing: As appropriate for the work environment. Dusty clothing should be laundered before reuse.

IX. Physical & Chemical Properties

Appearance & Odor: Light green to gray-green sand-size granules, odorless

ph: N/A

Boiling Point: N/A

Melting Point: 2800-3200° F

Solubility in Water: Insoluble

Percent Volatile: 0%

Auto ignition Temp: will not burn

Specific Gravity(water = 1): 2.3-3.6

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Flash Point (Method Used) fully oxidized, will not burn

Flammable Limits: LELN:/A UEL: N/A

X. Stability & Reactivity

Stability: Stable

Incompatibility: None known

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

Hazardous Decomposition Products: None known

Conditions to Avoid: None

XI. Toxicological Information

HEALTH HAZARDS:

Inhalation: Inhalation of dust may cause irritation of the nose, throat and respiratory passages.

Skin Contact: No adverse effects expected.

Eye Contact: Contact may cause mechanical irritation and possible injury.

Ingestions: No adverse effects expected for normal, incidental ingestion.

291 Milperra Road, Revesby, NSW, 2212 (PO Box 360, Revesby North, NSW, 2212)

Tel: (02) 9792 2733 Fax: (02) 9792 2866 Email: mail@burwell.com.au Website: www.burwell.com.au

Chronic Health Effects: Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath, and reduced pulmonary function.

Medical Conditions Aggravated by Exposure: Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation should be excluded from exposure.

Signs and Symptoms of Exposure: Overexposure to nuisance dusts may cause mucous membrane and respiratory irritation, cough, sore throat, nasal congestion, sneezing and shortness of breath.

Acute Toxicity Values: No acute toxicity data is available for product or components.

XII. Ecological Information

No eco toxicity data is available. This product is not expected to present an environmental hazard.

XIII. Disposal Considerations

Waste Disposal Method: Olivine is not classified as a hazardous waste under US EPA RCRA regulations. If uncontaminated, dispose as an inert, non-metallic mineral. If contaminated, dispose in accordance with all applicable local, state/provincial and federal regulations in light of the contamination present. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

XIV. Transport Information

U.S. DOT HAZARD CLASSIFICATION

Proper Shipping Name: Olivine

UN Number: N/A

Labels Required: None

Exceptions: N/A

Technical Name: Magnesium Iron Silicate

Hazard Class/Packing Group: N/A

DOT Packaging Requirements: N/A

XV. Regulatory Information

SARA 311/312: Hazard Categories for SARA Section 311/312 Reporting: Chronic Health

CERCLA Section 103 Reportable Quantity: None

Toxic Substances Control Act: All of the components of this product are listed on the EPA TSCA Inventory or exempt from premanufacture notification requirements.

European Inventory of Commercial Chemical Substances: All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

European Community Labeling: No labeling required.

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Canadian WHMIS Classification: Class D, Division 2, Subdivision A (Very Toxic Material causing other Toxic Effects)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Japan METI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS inventory or exempt from notification requirements.

Australian National Occupational Health & Safety Commission Status: Not classified as hazardous according to the criteria of Australian National Occupational Health & Safety Commission.

Korea: All of the components of this product are listed on the ECL inventory or exempt from notification requirements.

Philippines: All of the components of this product are listed on the PICCS inventory or exempt from notification requirements.

XVI. Other Information

EU Classes and Risk Phrases for Reference (See Sections II and III)

Xn Harmful
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitization by skin contact.

NFPA Hazard Rating: Health:1 Fire: 0 Reactivity: 0

HMIS Hazard Rating: Health:1 * Fire: 0 Reactivity: 0 (*Warning - Chronic health effect possible)

IX. Silicosis Warning

Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during blasting operations, post-blast cleaning operations, and/ or servicing equipment within the blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. A NIOSH-approved, well-maintained, respirator designed for the specific operation being performed must be used by anyone blasting, handling or using the abrasive, and anyone in the area of the dust. Failure to comply with the above warning could result in death or serious injury.

You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to comply with the above warning could result in death or serious injury.

MSDS data issued Maxworth Minerals India Pvt Ltd.
+91-891-2566263

Date of Issue: October 2010

DISCLAIMER: The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy. These conditions or methods of handling, storage use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Customers/users of silica must comply with all applicable health and safety laws, regulations and orders, including the OSHA Hazardous Communication Standard.