

Material Safety Data Sheet

Galaxy Garnet (LC)



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Galaxy Garnet (LC)
Product Identifier	Not applicable
MSDS No.	0001
Other Means of Identification	Natural Almandine Garnet
Manufacturer / Supplier	Liang Cheng Xinlei Emery Produce Co., LTD, Jianshe Street, Liangcheng, Inner Mongolia, P.R. China, Fan Bao Lin, +86 (474) 420 3739, Email: fan.bao.lin@vip.163.com
Emergency Contact Information	Liang Cheng Xinlei Emery Produce, +86 (474) 420 3739, 9:00 AM - 5:00 PM
Use	Abrasive blast cleaning / water jet cutting and water filtration media

2. HAZARDS IDENTIFICATION

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Potential Health Effects

Route of Exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Inhalation	May irritate the respiratory system.
Skin Contact	May cause mild irritation.
Eye Contact	Can cause effects as described for inhalation. May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.
Ingestion	May cause irritation.
Effects of Long-Term (Chronic) Exposure	May irritate the respiratory system.
Carcinogenicity	No information was located.
Teratogenicity / Embryotoxicity	No information was located.
Reproductive Toxicity	No information was located.
Mutagenicity	No information was located.
Target Organs	Respiratory system.
Toxicologically Synergistic Materials	Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Garnet (Almandite)	1302-62-1	>97	Fe3Al2(SiO4)3

MSDS Name: Galaxy Garnet (LC)- Ver. 1

Date of Preparation: November 22, 2015

Page 1 of 05

Calcium carbonate	1317-65-3	<1.5	CaCO ₃
Ilmenite	12168-52-4	<1.0	FeTiO ₃
Zirconium(IV) silicate (1:1)	14940-68-2	<0.5	ZrSiO ₄
Silica, crystalline quartz	14808-60-7	<0.5	SiO ₂

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. If victim is experiencing asthma-like symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes.
Eye Contact	immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek immediate medical attention should irritation or pain persists.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Call a Poison Centre or doctor if the victim feels unwell.

5. FIRE FIGHTING MEASURES

Flammable Properties Does not burn.

Suitable Extinguishing Media Not combustible. Use extinguishing agent suitable for surrounding fire.

Media

Specific Hazards Arising from the Chemical Not known to generate any hazardous decomposition products in a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Review Section 7 (Handling) of this MSDS before proceeding with clean-up.

Environmental Precautions It is good practice to prevent releases into the environment.

Methods for Containment and Clean-up Avoid generating dust.
Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling Avoid generating dusts.
Wear personal protective equipment to avoid direct contact with this chemical.
Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces.

Storage Store in an area that is: dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Garnet (Almandite)			5 mg/m ³ *			
Ilmenite	5 mg/m ³					
Calcium carbonate	10 mg/m ³					

MSDS Name: Galaxy Garnet (LC)- Ver. 1

Date of Preparation: November 22, 2015

Page 2 of 05

Zirconium(IV) silicate (1:1)			5 mg/m3
Silica, crystalline quartz			0.1 mg/m3 * A2

Exposure Guideline * Respirable

Comments

Total dust, OSHA (PEL)= 15 mg/m3
Crystalline Silica, ACGIH, TWA, 0.10 mg / m3 (ACGIH), 0.025 mg /m3, respirable.

Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.
Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Personal Protective Equipment (PPE)

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.
Do not get in eyes.

Skin Protection

Avoid repeated or prolonged skin contact.
Always wear insulated protective clothing, if contact is possible.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s).
In conditions where the levels of airborne dust exceed the capabilities of the above referenced respirators, a supplied-air respirator may be necessary.

General Hygiene

Considerations

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.
Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.
Remove contaminated clothing and protective equipment before entering eating areas or leaving work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Dark red.
Odour	Faint
Odour Threshold	Not applicable
Boiling Point	Not applicable
Melting Point	~ 1315 °C (2399 °F)
Freezing Point	Not applicable
Relative Density (water = 1)	3.9 - 4.1
Bulk Density	2.0 - 2.3 kg/L
Solubility in Water	Not applicable
pH	Not applicable
Partition Coefficient, n-Octanol/Water	Not applicable
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Evaporation Rate	Not applicable
Flash Point	Not applicable
Lower Flammable/Explosive Limit	Not applicable
Upper Flammable/Explosive Limit	Not applicable
Auto-ignition Temperature	Not applicable
Other Physical Property 1	Moh Hardness 7.0-8.0

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Generation of dust.
Incompatible	Oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid).

MSDS Name: Galaxy Garnet (LC)-Ver. 1

Date of Preparation: November 22, 2015

Materials**Hazardous** Not applicable.**Decomposition****Products****Possibility of** Not applicable.**Hazardous Reactions**

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Garnet (Almandite)	Not available	Not available	Not available
Ilmenite	Not available	30,000 mg/kg (rat)	Not available
Calcium carbonate	Not available	6,450 mg/kg (rat)	Not available
Zirconium(IV) silicate (1:1)	Not available	Not available	Not available
Silica, crystalline quartz	Not available	500 mg/kg (rat)	Not available

Skin Irritation / Corrosion

May cause mild irritation based on information for closely related chemicals.

Eye Irritation / Corrosion

May cause moderate or severe irritation based on information for closely related materials.

Effects of Short-Term (Acute) Exposure**Inhalation**

May irritate the respiratory system.

Skin Absorption

May cause irritation.

Ingestion

May cause irritation.

Effects of Long-Term (Chronic) Exposure

May irritate the respiratory system.

Respiratory and/or Skin Sensitization

May cause respiratory or skin sensitization based on limited evidence .

Carcinogenicity

Not specifically evaluated.

Teratogenicity / Embryotoxicity

No information was located.

Reproductive Toxicity

No information was located.

Mutagenicity

No information was located.

Toxicologically Synergistic Materials

No information was located.

12. ECOLOGICAL INFORMATION

General Comments Environmental information was not located.

13. DISPOSAL CONSIDERATIONS

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

MSDS Name: Galaxy Garnet (LC) - Ver. 1

Date of Preparation: November 22, 2015

Page 4 of 05

14. TRANSPORT INFORMATION

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

16. OTHER INFORMATION

MSDS Prepared By Fan Bao Lin
Phone No. +86 (474) 420 3739
Date of Preparation November 22, 2015
Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Safety and Health Administration

HSDB® = Hazardous Substances Data Bank

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Symyx Software, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer To the best of our knowledge, the information contained herein is accurate.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.