

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER NAME : M/s. MAXWORTH MINRALS TRADING PVT. LTD.,
ADDRESS : D No. 48-14-116/6,
4TH FLOOR, LAKSHMI ROYAL PLAZA,
RESAPUVANIPALEM,
VISKAHAPATNAM: 530003, AP, INDIA
Tel : (91) 891 256 6263,
E-MAIL : enquiry@maxworthgroup.com.au
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MSDS DATE: 05.01.2018

SYNONYMS : FGA, FINE GRADE ASH, FLY ASH
USES : ASPHALT ADDITIVE, CEMENT ADDITIVE, CONCRETE ADDITIVE,
CONSTRUCTION FILLER, INDUSTRIAL APPLICATIONS, RAW
MATERIAL, SOIL STABILIZATION.

2. HAZARDOUS IDENTIFICATION: CLASSIFIED AS NON-HAZARDOUS ACCORDING TO ASCC CRITERIA

RISK PHRASES:

R20 : HARMFUL BY INHALATION.
R36/37/38 : IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
R40 : LIMITED EVIDENCE OF CARCINOGENIC EFFECT
R48/20 : HARMFUL DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED THROUGH
INHALATION.

SAFETY PHRASES:

S22 : DO NOT BREATH DUST
S24/25 : AVOID CONTACT WITH SKIN AND EYES
S36/37/39 : WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
S38 : IN CASE OF INSUFFICIENT VENTILLATION, EAR SUIATBLE RESPIRATORY EQUIPMENT
S51 : USE ONLY IN WELL VENTILATED AREAS

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN NO. : NONE ALLOCATED
PACKING GROUP: NONE ALLOCATED
DG CLASS : NONE ALLOCATED
HAZCHEM CODE: NONE ALLOCATED
SUBSIDIARY RISKS(S): NONE ALLOCATED
EPG : NONE ALLOCATED

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3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredient	Formula	CAS No.	Content
QUARTZ (SILICA CRYSTALLINE)	Si-O ₂	14808-60-7	60-70%
CALCIUM OXIDE	Ca-O	1305-78-8	<12%
IRON OXIDE	Fe ₂ -O ₃	1309-37-1	<4%
ALUMINIUM OXIDE	AL ₂ -O ₃	1344-28-1	10-20%
MAGNESIUM OXIDE	MG-O	1309-48-4	<1%

4. FIRST AID MEASURES:

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a poisons information centre, a doctor, or for at least 15 minutes
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a poisons information centre or a doctor.
Ingestion	For advice, contact a poisons information centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting
Advice to Doctor	Treat symptomatically

5. FIREFIGHTING MEASURES

Flammability	Non-Flammable. May evolve toxic gases if strongly heated.
Fire and explosion	No fire or explosion hazard exists.
Extinguishing	Prevent contamination of drains or waterways.
Hazchem code	None allocated

6. ACCIDENTAL RELEASE MEASURES:

Spillage	Contact emergency services if required. Use personal protective equipment. Clear areas of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Avoid generating dust.
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7. STORAGE AND HANDLING:

Storage	Store tightly sealed in a cool, dry, well ventilated area, removed from acids, alkalis, heat or ignition sources and food stuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	Mg M3	ppm	Mg M3
	Silica, Crystalline Quartz	ASCC (AUS)	-	0.1	-	-
Biological limits	No biological limit allocated					
Engineering Controls	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.					
PPE	Wear dust-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear: coveralls. At high dust levels, wear: a Full-face class P3 (Particulate) or an Air-line respirator. Where an inhalation risk exists, wear: a class P1 (Particulate) respirator.					

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	GRAY POWDER	Solubility (water)	< 50 g/L
Odour	ODOURLESS	Specific Gravity	2.15 to 2.25
Ph	3 to 4	% Volatiles	< 2%
Vapour Pressure	Not available	Flammability	Non Flammable
Vapour Density	Not available	Flash point	Not relevant
Boiling Point	Not available	Upper explosion limit	Not relevant
Melting Point	>1600 °C	Lower explosion limit	Not relevant
Evaporation Rate	Not available		
Bulk density	800-1000 Kg/m3		

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10. STABILITY & REACTIVITY

Chemical stability	Stable under recommended conditions of storage
Conditions to avoid	Avoid contact with incompatible substances.
Material to avoid	Incompatible with acids (e.g. nitric acid) and alkalis (e.g. hydroxides)
Decomposition	May evolve toxic gases if heated to decomposition.
Hazardous reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health hazard summary	Irritant. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). However, due to the low levels of crystalline silica, chronic health effects are not anticipated with normal use. Crystalline silica is classified as carcinogenic to humans (IARC Group 1)
Eye	Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result in burns with prolonged contact.
Inhalation	High Chronic toxicity – irritant. Over exposure to dust may result in mucous membrane irritation of the respiratory tract. Chronic exposure to crystalline silica may result in silicosis (lung fibrosis). Crystalline silica is classified as carcinogenic to humans (IARC Group 1).
Skin	Irritant. Contact may result in irritation, redness, pain and rash. May cause sensitization by skin contact
Ingestion	Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.
Toxicity data	Quartz (Silica Crystalline) (14808-60-7) LCLo (Inhalation) : 300 ug/m ³ /10 years (human) LDLo (Intravenous) : 200 mg/kg (rat) LDLo (Intravenous) : 20 mg/kg (dog) TCLo (Inhalation) : 16 000 000 particles / ft ³ /8 hours/17.9 years (human-fibrosis)

12. ECOLOGICAL INFORMATION

Environment	The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.
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13. DISPOSAL CONSIDERATION

Waste disposal	Ensure product is covered with moist soil to prevent dust generation and dispose to approved council landfill. Contact the manufacturer if additional information is required.
Legislation	Dispose of in accordance with relevant local legislation

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14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE		
Shipping Name: None allocated		
UN No. None allocated	DG Class : None allocated	Subsidiary Risk(s): None allocated
Packing group: None allocated	Hazchem group: None allocated	EPG: None allocated

15. REGULATORY INFORMATIONS

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the standard for the uniform scheduling of drugs and poisons (SUSDP)
AICS	All chemicals listed on the Australian Inventory of Chemical substances (AICS)

16. OTHER INFORMATION

Additional Information	<p>Crystalline silica is present in Fly Ash as an impurity. The amount depends on the crystalline silica content of the source coal.</p> <p>ALUMINO SILICATES: When alumina silicates have been exposed to service temperatures exceeding 982° C for prolonged periods, cristobalite, a form of crystalline silica may be formed. Exposure to cristobalite dust may cause pulmonary fibrosis-silicosis. A hazard is only anticipated during demolition of used refractory materials. Cristobalite is classified as carcinogenic to humans (IARC Group 1)</p> <p>RESPIRATORS: In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air supplied respirators should be considered where prolonged or repeated use is necessary.</p> <p>ABBREVIATIONS:</p> <p>ADB - Air Dry basis</p> <p>BEI-Biological exposure indices(s)</p> <p>CAS# - Chemical abstract service number-used to uniquely identify chemical compounds</p> <p>CNS - Central Nervous System</p> <p>EINECS - European inventory of existing commercial chemical substances</p> <p>IARCS - International agency for research on cancer</p> <p>M - moles per ltr, a unit of concentration.</p> <p>Mg/m3 - Milligrams per cubic mtr</p> <p>NOS - Not otherwise specified</p> <p>NTP - National toxicology program</p> <p>OSHA - Occupational safety fir health administration</p> <p>pH - relates to hydrogen ion concentration using a scale of 0(high acidic)</p>
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	<p>to 14 (highly alkaline) ppm - Parts per million RTECS - registry of toxic effects of chemical substances TWA/ES -Time weighted average or exposure standard.</p> <p>HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a CChem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.</p> <p>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES : The recommendation for protective equipment contained within this Chem Alert is provided as a guide only. Factors such as methods of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.</p>
<p>Report Status:</p>	<p>This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturers safety data sheet ('SDS'). It is based on information concerning the product which has been</p> <p>provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While RMT has taken all due care to include accurate and up-to-date</p> <p>information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury, or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.</p>
<p>Prepared by</p>	<p>M/S. MAXWORTH MINERALS TRADING PVT. LTD., D No 48-14-116/6, LAKSHIMI ROYAL PLAZA, FOURTH FLOOR, RESAPUVANIPALEM, VISAKHAPATNAM – 530003, INDIA TEL: (91) 891 256 6263</p>

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