

Material Safety Data Sheet

KILN WASTE GAS DUST - DOLOMITE

Infosafe™
No. HXGX5

Issue Date April 2008

Status ISSUED by
BSLNSW

BS: 1.10.9

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical

**Product and
Company**

Identification Approval no: 000135

Product Name KILN WASTE GAS DUST - DOLOMITE

Product Code

Company Name BLUESCOPE STEEL (AIS) PTY LTD (ABN 19 000 019 625)

Address Five Islands Road Port Kembla
NSW 2505

Emergency Tel. 131126 Poison Info

**Telephone/Fax
Number** Tel: 02 4275 7522 (24/7 switch board)
Fax: 02 4275 7159

Recommended Use Material is primarily used for making BF briquettes by MultiServ, but also recycled via Sinter Plant Raw Materials pelletiser, sold off site to Fertspread for agricultural use, recycled through 21 Area ponds.

Other Names

Name

Product Code

WASTE DOLOMITE DUST
FABRIC FILTER DUST
KILN WASTE DUST
RAW DOLOMITE DUST

**Additional
Information**

The product is generated by Dust is collected from the lime kiln waste gas dust stream via a Fabric Filter, then pneumatically transported to a storage silo.

2. HAZARDS IDENTIFICATION

Material Safety Data Sheet

KILN WASTE GAS DUST - DOLOMITE

Infosafe™
No. HXGX5

Issue Date April 2008

Status ISSUED by
BSLNSW

BS: 1.10.9

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical

**Product and
Company**

Identification Approval no: 000135

Product Name KILN WASTE GAS DUST - DOLOMITE

Product Code

Company Name BLUESCOPE STEEL (AIS) PTY LTD (ABN 19 000 019 625)

Address Five Islands Road Port Kembla
NSW 2505

Emergency Tel. 131126 Poison Info

**Telephone/Fax
Number** Tel: 02 4275 7522 (24/7 switch board)
Fax: 02 4275 7159

Recommended Use Material is primarily used for making BF briquettes by MultiServ, but also recycled via Sinter Plant Raw Materials pelletiser, sold off site to Fertspread for agricultural use, recycled through 21 Area ponds.

Other Names

Name

Product Code

WASTE DOLOMITE DUST
FABRIC FILTER DUST
KILN WASTE DUST
RAW DOLOMITE DUST

**Additional
Information**

The product is generated by Dust is collected from the lime kiln waste gas dust stream via a Fabric Filter, then pneumatically transported to a storage silo.

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia
Dangerous Goods Code.

Risk Phrase(s) R34 Causes burns.

Safety Phrase (s) S25 Avoid contact with eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face
protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Calcium oxide	1305-78-8	10-35 %
	Magnesium oxide	1309-48-4	10-30 %
	silica amorphous	7631-86-9	0-2 %
	Iron	7439-89-6	0-1 %
	Aluminium oxide	1344-28-1	0-1 %
	Ingredients determined not to be hazardous	-	Balance

Other Information This product has a Limiting Oxygen Index (LOI) of approx 45%

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

Ingestion DO NOT INDUCE VOMITING. Wash out mouth with water. If symptoms develop seek medical attention.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

First Aid Facilities Eye wash station, safety shower and normal washroom facilities.

Advice to Doctor Treat symptomatically.
For acute or short-term repeated exposures to highly alkaline

materials:

Respiratory stress is uncommon but present occasionally because of soft tissue edema.

Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary. Oxygen is given as indicated.

The presence of shock suggests perforation and mandates an intravenous line and fluid administration.

Alkali corrosives damage occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

5. FIRE FIGHTING MEASURES

**Suitable
Extinguishing
Media**

Use extinguishing media suitable for surrounding area

**Hazards from
Combustion
Products**

Non combustible.

**Specific
Methods**

Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

**Specific
Hazards**

May emit corrosive fumes.

**Precautions in
connection with
Fire**

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

**Emergency
Procedures**

Remove all sources of heat. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. If this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

**Precautions for
Safe Handling**

Avoid generating airborne dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Store away from strong acids, water and other incompatible materials. Have appropriate fire extinguishers available in and near the storage area.

Other Information Stored in silos.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Calcium oxide			2		
	Magnesium oxide			10		
	Iron			5		As iron oxide fumes

Biological Limit Values No biological limit allocated.

Other Exposure Information No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC). However, exposure standards for ingredients are stated above: As published by the National Occupational Health and Safety Commission (NOHSC):
 TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
 STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
 According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Engineering Controls Use with good general ventilation. If dusts are produced local exhaust ventilation should be used.

Respiratory Protection Where sufficient ventilation is not available, avoid breathing dust by wearing an AS 1716 approved F1 or P2 particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye Protection Safety glasses with side shields, goggles or full-face shield as

appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light brown fine dust.
Odour	Odourless.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Immiscible
Specific Gravity	2.9
pH Value	Ph of solution = 12.6
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Extremes of temperature and dusty conditions.

Incompatible Materials Strong acids.

Hazardous Decomposition Products Thermal decomposition may result in the release of toxic and/or irritating fumes.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicology data available for this product.

Inhalation Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.

Ingestion Ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Skin Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Eye Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

Chronic Effects Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. This material has been tested and found to have minimal respirable dust and Crystalline (Alpha) Quartz.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data available for this specific product.

Persistence / Degradability Not available.

Mobility Not available.

Environment Protection Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

Transport Information Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

Hazard Category Corrosive

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Reviewed: April 2008
MSDS Created: May 2003

User Codes	<u>User Title Label</u>	<u>User Code</u>
	Approval Number	000135

Other Information This MSDS has been transcribed into Infosafe NOHSC format from an original issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

End of MSDS

(C) Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.

Print Date: 30/06/2011

BS: 1.10.9