



MATERIAL SAFETY DATA SHEET

Product Name: GRAPHITE MICROFYNE

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Section 1 - Identification of Chemical Product and Company

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Trade Name: **GRAPHITE MICROFYNE.**

Product Use: Lubricant

Creation Date: September 2008

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Section 2 - Hazards Identification

Statement of Hazardous Nature

Classified as hazardous according to criteria of NOHSC Australia.

Classified as NON-Dangerous according to the Australian Dangerous Goods (ADG) Code.

We do recommend the following:

Risk Phrases:

S24/25 Avoid contact with eyes and skin

S37/39 Wear suitable gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

ADG Classification: N/A

UN Number: N/A

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc. %
Graphyte	7782-42-5	99%
Ash (which may contain silica)	Not required	1%

Section 4 - First Aid Measures

Inhalation	In case of overexposure, move exposed person to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation develops seek medical attention.
Ingestion	If swallowed, DO NOT induce vomiting. Give a glass of water to drink. If irritation develops seek medical attention. Have label or Material Safety Data Sheet to show if possible.
Skin	Rinse thoroughly with water. Remove contaminated clothing and wash before re-use. If irritation develops seek medical attention.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses if worn. If irritation develops seek medical attention.
First Aid Facilities	Eye wash fountains or running water.
Advice to Doctor	Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media	Not expected to burn. Use extinguishing media suitable for the surrounding fire.
Specific Methods	If safe to do so, remove containers from path of fire. Fire-fighters to wear self-contained breathing apparatus if in risk of exposure to vapours or products of combustion.
Specific Hazards	When subjected to high heat may decompose to form water, carbon monoxide, carbon dioxide and other unidentified organic compounds.

Section 6 - Accidental Release Measures

Spills & Disposal	Mop up (mop or sponge) or wash small spills to drain with excess water. Large spills should be contained and collected, or absorbed onto inert material (eg sand, earth or vermiculite) and placed in clean, labelled plastic or plastic lined containers for disposal. Wash area thoroughly with water and ensure surface is not slippery afterwards. Do not contaminate surface water with product.
Other Information	Observe safety precautions as outlined in 'Personal Protection' section above. Mop up (mop or sponge) or wash small spills to drain with excess water. Large spills should be contained and collected, or absorbed onto inert material (eg sand, earth or vermiculite) and placed in clean, labelled plastic or plastic lined container for disposal. Wash area thoroughly with water and ensure surface is not slippery afterwards.

Section 7 - Handling and Storage

Precautions for Safe Handling	Keep out of reach of children. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practised.
Conditions for Safe Storage	Store in a cool, dry place away from direct heat and sunlight. Store away from acids and oxidising agents.
Corrosiveness	Not corrosive to aluminium.

Section 8 - Exposure Controls and Personal Protection

National Exposure Standards	Exposure Limits: TWA ppm 3mg/m ³ STEL ppm mg/ m ³
	Subject to accurate determination of crystalline silica, exposure at or below the recommended TLV is thought to protect workers from health effects caused by inhalation of dust.
Engineering Controls	Use in well-ventilated areas. Ensure mechanical ventilation is adequate to maintain concentration below exposure standards. Local exhaust is required where concentrations exceed TLV. If local levels still exceed TLV, particle dust respirators should be used.
Respiratory Protection	Avoid breathing spray/mists. No special measures required when used according to directions.
Personal Protective Equipment	Wear safety glasses or goggles if splashing is likely to occur. Wear protective gloves if prolonged contact occurs.
Body Protection	No special measures when used according to directions. Remove and launder soiled clothing before re-use.

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Section 9 - Physical and Chemical Properties:

Appearance	Silvery/Black powder.
Boiling Point	N/A
Solubility in Water	Not soluble
Specific Gravity	2.25
pH Value	N/A
Vapour Pressure	N/A
Flash Point	N/A
Flammability	N/A
Flammable Limits - Lower	N/A
Flammable Limits - Upper	N/A

10. STABILITY AND REACTIVITY

Chemical Stability	HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and Carbon dioxide
Hazardous Reactions	As Graphite is electrically conductive, exercise caution when handling near electronic circuitry.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Exposure Limits: TWA ppm 3mg/m ³ STEL ppm mg/ m ³ Subject to accurate determination of crystalline silica, exposure at or below the recommended TLV is thought to protect workers from health effects caused by inhalation of dusts.
Inhalation	Use in well-ventilated areas. Ensure mechanical ventilation is adequate to maintain concentration below exposure standards. Local exhaust is required where concentrations exceed TLV. If local levels still exceed TLV, particle dust respirators should be used.
Ingestion	Ingestion of concentrate may irritate mouth, oesophagus and stomach.
Skin	Skin contact without rinsing may produce mild skin irritation. Avoid contact with skin.
Eye	Contact with concentrate may lead to mild irritation characterised by redness, watering and/or itching. Avoid contact with eyes.
Chronic Effects	Cases of pulmonary fibrosis, emphysema and pneumoconiosis may result from prolonged inhalation of dust containing Silica. These prolonged conditions are usually found in the mining and processing of Graphite

12. ECOLOGICAL INFORMATION

Ecotoxicity	The ingredients of this product are not toxic to the aquatic environment at the concentrations in which they are present.
Persistence / Degradability	Major components are not readily biodegradable.

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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Vacuum up excess powder. Area will be very slippery until cleaned. Clean area with soap and water and dispose according with local authorities requirements.
Container Disposal	Rinse out container with water and dispose with drum or plastics recycler.

14. TRANSPORT INFORMATION

Transport Information	Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition).
Storage and Transport	Vacuum up excess powder. Area will be very slippery until cleaned. Clean area with soap and water and dispose according with local authorities requirements

15. REGULATORY INFORMATION

Regulatory Information	Not classified as hazardous according to criteria of NOHSC Australia.
Poisons Schedule	None allocated

16. OTHER INFORMATION

Contact Person/Point	Poisons Information Centre (Australia): 13 11 26
Literature References	ASCC: Hazardous Substances Information System. Hazard Classification, Risk and Safety Phrases and Exposure Standards information. National Code of Practice for the Preparation of Material Safety Data Sheets, 2nd Edition [NOHSC:2011(2003)] Approved Criteria for Classifying Hazardous Substances, 3rd Edition [NOHSC:1008(2004)] Australian Code for the Transport of Dangerous Goods by Road and Rail. International Maritime Dangerous Goods Code. International Air Transport Association Dangerous Goods Regulations.
Revisions Highlighted	Updated information layout to comply with NOHSC 16 header format requirements.

End of MSDS

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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