

Currumbin Minerals Pty Ltd



ABN 78 009 729 015

Registered Office: 20 Wheeler Crescent, Currumbin Queensland 4223
Postal Address: P.O. BOX 31, CURRUMBIN, QLD, 4223 PH: 61 7 5534 7255 FAX: 61 7 5534 7591

1. IDENTIFICATION

Product Identifier

GHS ILMENITE SAND

Company Name

Currumbin Minerals

Address

20 Wheeler Crescent
Currumbin Australia 4223

Telephone/Fax Number

Tel: (07)5534 7255

Emergency phone number

0439 155 514

Recommended use of the chemical and restrictions on use

Raw material for manufacture of titanium dioxide pigments, titanium metal and welding rod electrodes.

2. HAZARD IDENTIFICATION

GHS Classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS)

including Work, Health and Safety regulations, Australia.

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

(7th edition)

3. COMPOSITION/INFORMATION ON INGREDIENTS

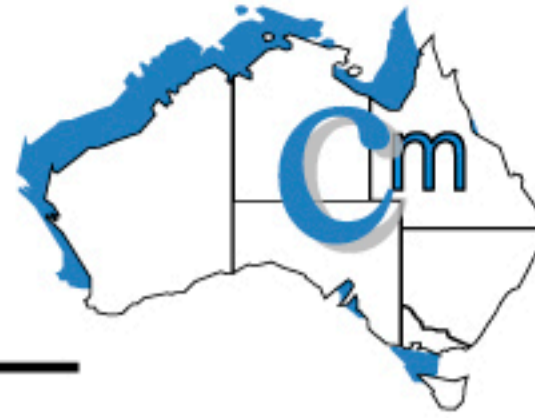
Information on Composition

Contains <0.1% respirable crystalline silica in the form of quartz.

Ingredients

Name	CAS	Proportion
Ilmenite	12789- 64- 9	> 97 %
Crystalline Silica (Quartz)	14808- 60- 7	<1 %
Other minerals	Mixture	<2 %

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4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases.

Specific Hazards Arising From The Chemical

The product is not combustible.

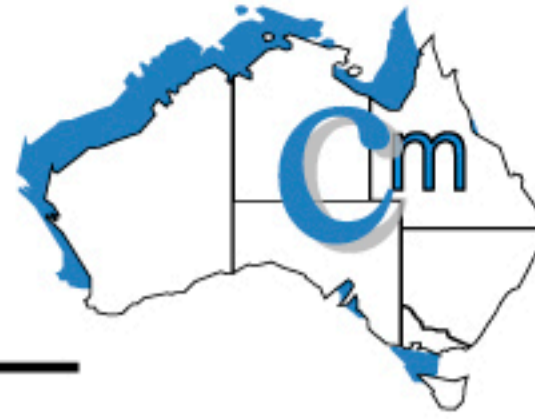
Decomposition Temperature

Not available

Precautions in connection with Fire

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

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use.

Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers.

Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Crystalline Silica (Quartz)

TWA: 0.1 mg/m³ (respirable)

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

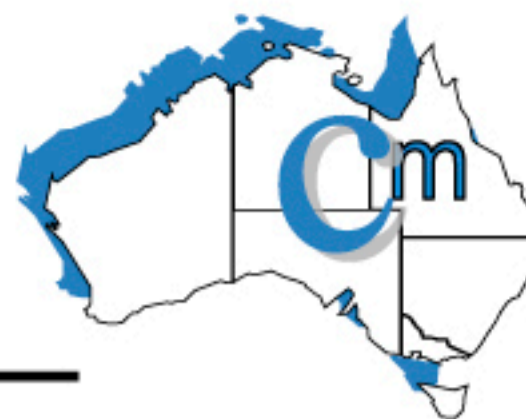
Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation. If dust is produced, local exhaust ventilation should be used.

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Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

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, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial

Applications.

Hand Protection

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

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black sand

Colour: Black

Odour: Odourless

Decomposition Temperature: Not available

Melting Point: >2000°C

Boiling Point: Not available

Solubility in Water: Insoluble at 20°C

Specific Gravity: 4.2-4.3

pH: 7.1-8.8

Vapour Pressure: Not available

Vapour Density (Air=1): Not available

Evaporation Rate: Not available

Odour Threshold: Not available

Viscosity: Not available

Partition Coefficient: n-octanol/water: Not available

Density: Bulk density: 2400-2700kg/m³

Flash Point: Not available

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Flammability: Non-combustible solid
Auto-Ignition Temperature: Not available
Explosion Limit – Upper: Not available
Explosion Limit – Lower: Not available

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of storage and handling.

Reactivity and Stability: Not available

Conditions to Avoid: Extremes of temperature and direct sunlight. Moisture.

Incompatible materials: Not available

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 toxicity data available for this product.

Ingestion: Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation: Inhalation of dusts may irritate the respiratory system.

Skin: Skin contact may cause mechanical irritation resulting in redness and itching.

Eye: Eye contact may cause mechanical irritation. May result in mild abrasion.

Respiratory sensitisation: Not expected to be a respiratory sensitiser.

Skin Sensitisation: Not expected to be a skin sensitiser.

Germ cell mutagenicity: Not considered to be a mutagenic hazard.

Carcinogenicity: Not considered to be a carcinogenic hazard.

Reproductive Toxicity: Not considered to be toxic to reproduction.

STOT-single exposure: Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure: Not expected to cause toxicity to a specific target organ.

Aspiration Hazard: Not expected to be an aspiration hazard.

Other Information

RADIATION: In common with many naturally occurring mineral products, this product contains extremely low levels of naturally occurring radioactive elements - principally uranium and thorium. The main radiological hazard from the product is internal exposure to alpha particles given off in small amounts by inhaled dust. Low level gamma radiation from bulk or bagged stockpiles may present a lesser, external hazard.

12. ECOLOGICAL INFORMATION

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Ecotoxicity: No ecological data are available for this material.

Persistence and degradability: Not available

Mobility: Insoluble in water at 20°C

Bioaccumulative Potential: Not available

Other Adverse Effects: Not available

Environmental Protection: Prevent this material entering waterways, drains or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations:

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport:

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

(7th edition)

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Air Transport (ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

MARPOL: The product does not meet the conditions to be considered "harmful to the marine environment" under the revised

MARPOL Annex V.

U.N. Number: None Allocated

UN proper shipping name: None Allocated

Transport hazard class(es): None Allocated

IMDG Marine pollutant: No

Transport in Bulk: Not available

Special Precautions for User: Not available

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15. REGULATORY INFORMATION

Regulatory information: Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS)

including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule: Not Scheduled

Other Information:

The regulations pertaining to radiological protection vary from country to country. It is the responsibility of the buyer to ensure that those regulations are met in accordance with his/her country's laws. Some of the regulating bodies for Australia are:

Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

State Environmental Protection Authorities

Federal Department of the Arts, Sports, Environment, Tourism and Territories

State Environmental Protection Authorities

State Departments of Mines

State Departments of Safety and Health

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: April 2020

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

Globally Harmonised System of classification and labelling of chemicals.

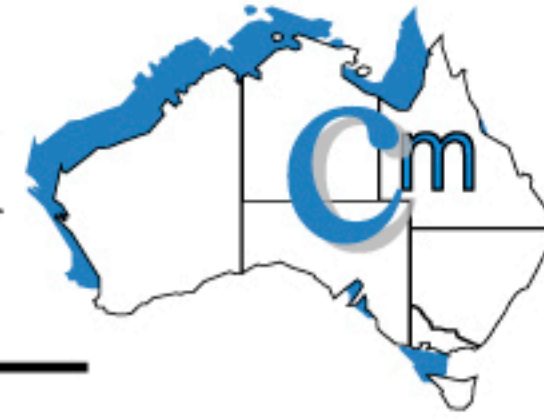
Contact Person/Point

Emergency Advice: Chemical Safety International ERS - 1800 638 556 (24 Hours)

PLEASE NOTE:

The information contained herein is based on data available to Currumbin minerals from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Currumbin minerals has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this

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information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. It is therefore recommended that you undertake your own risk assessment in relation to your method of handling and proposed use of this product. Currumbin Minerals accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.