

SAFETY DATA SHEET

LEUCOXENE L70



1. IDENTIFICATION OF MATERIAL SUPPLIER

Product Names: **L70**

Other Names: Leucoxene, L70, Altered Ilmenite, High Grade Ilmenite, Low Grade Rutile, Titanium Ore Concentrate.

Uses: Leucoxene is a combination of rutile and ilmenite minerals. It is used predominantly as a raw material for titanium dioxide pigment used in paints and cosmetics. Leucoxene is also used in titanium metal production for aircraft components, medical applications (artificial joints and limbs), sporting equipment and watches and in the manufacture of welding electrodes.

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2. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of Australian Safety and Compensation Council (ASCC).

Risk Phrases None

Safety Phrases None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients (typical)	Cas No	Weight
Rutile	1317-80-2	<50%
Ilmenite	12168-52-4	<50%
Quartz	14808-60-7	1-1.5%
Alumina	1344-28-1	2.5-4%

4. FIRST AID MEASURES

Swallowed: First aid is unlikely to be required, but if necessary wash mouth out with water ensuring the mouthwash is not swallowed. Give one or two glasses of water to drink. Seek medical attention if a large quantity has been swallowed.

Inhaled: Blow nose to remove particulates from nose. Move to area with fresh air. Seek medical attention if adverse reaction develops.

Skin: Remove contaminated clothing gently to avoid creating dust. Wash skin. If skin becomes irritated, seek medical attention. Launder affected clothing before re-use.

Eye: Hold eyelid open and flush with clean water. Continue until grit is removed. Seek medical attention if irritation or soreness persists.

Acute

Swallowed: Non-toxic. No known detrimental effect from accident ingestion as may occur during normal handling. Ingestion of large amounts may cause irritation to the gastro-intestinal system due to abrasiveness.

Inhaled: Mainly regarded as nuisance dust but may be irritating if inhaled at high concentrations. May cause coughing and/or sneezing.

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Skin: Low hazard.
Eye: Can cause irritation due to abrasiveness.

Chronic

Radiation: In common with many minerals, leucoxene 70 contains naturally occurring radioactive elements of the uranium and thorium series. The uranium and thorium levels of Keysbrook Leucoxene Pty Ltd leucoxene is very low, compared with products produced from most mineral sands deposits elsewhere in Australia. Assays of leucoxene have given levels for Uranium of 10 – 20ppm, and for Thorium of 200 – 250ppm. The main radiological hazard is internal exposure to alpha particles given off in small amounts in inhaled dust.

Silica: Crystalline silica is a known cause of lung fibrosis (silicosis). It has also been classified as a human carcinogen. Leucoxene 70 sand may contain a small amount of free quartz and precautions should be taken to avoid inhaling the dust.

FIRST AID FACILITIES Eye Wash Station
DOCTOR Treat symptomatically

5. FIRE FIGHTING MEASURES

Non-flammable, non-combustible

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Not relevant
Containment and Clean-up: Wear safety equipment for normal handling. Avoid generating dust. Vacuum up if possible, otherwise sweep up and recycle. If the spilled product is not suitable for re-use, dispose of to an approved landfill site and cover with clean fill.

7. HANDLING AND STORAGE

Handling: Dust generation should be minimised when handling. Wash thoroughly after handling.
Storage: Storage areas should be ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Dust TWA-10mg/m³ (inhalable general nuisance dust)
Biological Limit Values: No information
Engineering Controls: Ventilation requirements will depend on handling methods and the amounts in use, but should be sufficient to maintain dust levels below exposure limits.
Personal Protective Equipment: Safety glasses or goggles. If there is a risk of inhaling dust, wear an approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brownish free running sand
Odour: Odourless
pH: 7.1
Vapour Pressure: Not applicable
Boiling Point/ Range: Not applicable
Melting Point: > 1500°C
Solubility: Insoluble
Bulk Density: 1.9 – 2.2
Stowage Factor: 0.46 ~ 0.47 m³/t
Angle of Repose: 30°
Flash Point: Not applicable
Flammability Limits: Not applicable

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10. STABILITY AND REACTIVITY

Reactivity	Inert	
Chemical	Stability:	Stable
Incompatible	Materials	None in normal or expected use
Decomposition	Products	Decomposition will not occur

11. TOXICOLOGICAL INFORMATION

Not classified as hazardous to human health according to criteria of GHS (UN 2017)

12. ECOLOGICAL INFORMATION

Does not meet the conditions to be considered 'harmful to the marine environment" under the revised MARPOL annexe V.

13. DISPOSAL CONSIDERATIONS

If not re-useable, dispose of at approved landfill site. Disposal must be in accordance with Commonwealth, State and local government regulations.

14. TRANSPORT INFORMATION

Transport may be regulated in some countries although the product is not regarded as a transport hazard. Trucks however should be covered when transporting dry bulk product to prevent dust creation.

Is not classifiable as a class 9 miscellaneous dangerous good for marine transport

15. REGULATORY INFORMATION

Poisons Schedule: None allocated

16. OTHER INFORMATION

Date of Issue: 30 August 2019
Replaces Issue: March 19, 2018
Review Date: March 2023

END OF SAFETY DATA SHEET