#### SAFETY DATA SHEET

# **LEUCOXENE L88**



# 1. IDENTIFICATION OF MATERIAL SUPPLIER

Product Names: Leucoxene L88

Other Names: Leucoxene, L88, L91, Altered Ilmenite, Low Grade Rutile, Titanium Ore Concentrate

Uses: Leucoxene 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.

Company: Keysbrook Leucoxene Pty Ltd

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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/Anatase/Leucoxene	1317-80-2 / 13463-67-7 / NA	87-90%
Quartz	14808-60-7	2-5%
Zircon	14940-68-2	1-2%
Uranium (U)	7440-61-1	1-30ppm
Thorium (Th)	7440-29-1	180-250ppm
Ferric Oxide	1309-37-1	2-5%
Alumina	1344-28-1	1-3%

# 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

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# I FUCOXENE I 88



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.

Skin: Low hazard.

Eye: Can cause irritation due to abrasiveness

Chronic

Radiation: In common with many minerals, leucoxene 88 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 88 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 L88 and L91 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

# **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

#### HANDLING AND STORAGE 7.

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

Storage: Storage areas should be ventilated.

# **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.

# PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brownish free running sand

Odour: Odourless 7 1

рН:

. Vapour Pressure: Not applicable Boiling Point/Range: Not applicable Melting Point: > 1500°C Insoluble Solubility: Bulk Density: 1.8 - 2.0 $0.53 \sim 0.58 \text{ m}^3/\text{t}$ Stowage Factor:

Angle of Repose:

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Flash Point: Not applicable Flammability Limits: Not applicable

### 10. STABILITY AND REACTIVITY

Reactivity Inert Chemical Stability: Stable

Incompatible Materials
Decomposition Products
None in normal or expected use
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: December 11, 2017

Review Date: March 2022

**END OF SAFETY DATA SHEET** 

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