

SAFETY DATA SHEET

According to
 HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **OxA131, OxB130, OxC145, OxD127, OxE126, OxE143, OxF125, OxF142, OxD123, OxD124, OxD122, OxD139, OxD121, OxD138, OxD120, OxD137, OxD119, OxD136, OxD118, OxD135, OxD117, OxD134, OxD116, OxD133, OxD90, OxD115, OxD132, PK03, PG04, PD05.**
 All other reference materials (current and historic) prefixed with the letters "OX" are also covered by this safety data sheet, even if they are not listed above.

Product Description: Blends of dry, grey mineral powders packed in white plastic jars with tamper seals (2.5kg), and clear plastic sachets (30 - 100g).

Product Use: Reference Materials are used as laboratory standards in chemistry laboratories for the purpose of quality assurance.

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Rocklabs Reference Materials**
 Address: 63 Tidal Road
 Mangere
 Auckland, 2022

Telephone: +64 9 444 3534
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 17 May 2023 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Laboratory Chemicals and reagent kits – HSR002596

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Carcinogenicity Cat. 1	H350	May cause cancer.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs(inhalation) through prolonged or repeated exposure to airborne dust.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Minimise and contain the dust, seal the material in a bag or container and dispose of the material in Landfill (refer to Section 13).

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Feldspar (Na,K,Ca)-AISi308	60 - 70	68476-25-5
Crystalline Silica / Quartz	<8	14808-60-7
Basalt	30 - 40	Not assigned

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause cancer. Causes damage to organs (inhalation) through prolonged or repeated exposure to airborne dust.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable and will not support combustion. However the packaging and surroundings may burn.
Hazards from combustion products	No data available.

Suitable Extinguishing media	Use extinguishing media appropriate for the surrounding combustibles.
Precautions for firefighters and special protective clothing	Wear Personal Protective Gear appropriate for the surroundings.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. For large inside spills with excessive dust, evacuate the area and allow time for the dust to settle.

For outdoor spills, contain the product to prevent spreading by the wind and pedestrian traffic.

Sweep up the material gently and avoid dust creation. Alternatively use a vacuum cleaner fitted with a HEPA filter. Dispose of in compliance with local and/or national regulations as detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use personal protective equipment as required.

Precautions for Storage:

- There are no incompatible chemicals, or storage restrictions.
- Store locked up.
- Keep container closed when not in use.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Crystalline Silica (Respirable dust)	-	0.05	-	-
Basalt & Feldspars are categorised under	-	3 (Respirable dust)		
Particulates not otherwise classified.	-	10 (Inhalable dust)		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Ensure adequate filtered extraction to maintain air concentrations below Workplace Exposure Standards. Keep containers closed when not in use.

Personal Protection Equipment

The selection of PPE is dependent on risk assessment taking into consideration the use and

quantity of the product.



Eyes	Wear safety goggles where dust could be generated. Do not wear contact lenses when working with this product. Maintain eye wash fountain and quick-drench facilities in work.
Skin	Skin contact is not a known route of entry for this product. However it is recommend wearing lab coat/overalls and gloves to prevent skin contact.
Respiratory	Required when airborne dust is generated. Use an appropriate respirator with Class P1 filter (3M) for solid particles generated from mechanical means, e.g. sanding, drilling, cutting, crushing, will be relatively large particles i.e. particles greater than 1 micron. Higher grades of respirators and particulate filters are also suitable.
General	It is good practice to minimize contact with workplace chemicals. Wash exposed skin. Avoid inhaling dusts, vapours or aerosols. Change contaminated clothing and wash hands after working with chemicals.

Section 9 Physical and Chemical Properties

Appearance	Fine powder(dry), with a texture of fine powder
Colour	Grey
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	1100 - 1450°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	2.6+ - 2.7 g/cm ³
Water Solubility	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Non-reactive under normal circumstances.
Conditions to Avoid	No data available.
Incompatible Materials	This material requires strong acids to dissolve it.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This material has been classified as non-hazardous however if swallowed the dust may be irritating to the gastro-intestinal tract.
Dermal	This material has been classified as non-hazardous.
Inhalation	This material has been classified as non-hazardous however if inhaled the dust may be harmful and irritating to the upper respiratory tract and lungs.
Eye	This material has been classified as not corrosive or irritating to eyes however if dust gets into the eyes it may be abrasive, irritating and capable of causing corneal scarring.
Skin	This material has been classified as not corrosive or irritating to skin.
Sensitisation	This material has been classified as non-hazardous.

Chronic Effects:

Carcinogenicity	May cause cancer.
Reproductive Toxicity	This material has been classified as non-hazardous.
Germ Cell Mutagenicity	This material has been classified as non-hazardous.
Aspiration	This material has been classified as non-hazardous.
STOT/SE	This material has been classified as non-hazardous.
STOT/RE	Causes damage to organs through repeated or prolonged exposure. Principal route of exposure is usually by inhalation. Overexposure to respirable dust may cause coughing, wheezing, difficulty in breathing and impaired pulmonary function. Chronic symptoms include decreased vital lung capacity and chest infections. Chronic exposure may cause silicosis, a disabling form of pneumoconiosis (accumulation of dust in the lungs – confirmable by X-ray), which leads to fibrosis (scarring of the lining of the air sacs in the lungs) and increased risk of tuberculosis. Symptoms are usually delayed.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Recover and recycle the product where possible. The minerals components of this product are non-biodegradable and are suitable for landfill.

This product may be disposed of and buried in landfill sites in New Zealand. The material should be dampened, covered, or sealed to minimize generation of airborne dust. The packaging should be recycled where possible.

Consult your local waste management authority for guidelines on disposal in your area.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Laboratory Chemicals and reagent kits – HSR002596

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	1000kg
Secondary Containment	1000kg
Restriction of Use	Only use for the intended purpose.

Section 16	Other Information
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Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Issue Date: 17 May 2023 Review Date: 17 May 2028