

## SAFETY DATA SHEET

Issue No 1  
 Date of Issue: 19/06/2026  
 Last revision: July 2021

## 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY /UNDERTAKING

### 1.1 Product Identifiers

**Product Name:** CRM Base Metals MAJORS < 5%

**Product Code:** 27350606

### 1.2 Other means of identification:

NA

### 1.3 Identified uses:

Reference material for chemical analyses.

### 1.4 Details of the supplier of the safety data sheet

PERTH:  
 Klen International (74) Pty Ltd;  
 36 Hemisphere Street  
 Neerabup WA 6031  
 EMAIL: [info@klen.com.au](mailto:info@klen.com.au)  
 ABN: 25 008 776 681

TEL: (+61) 8 9306 8900

CONTACT POINT - Chemist - TELEPHONE (+61) 8 9306 8900  
 EMERGENCY TELEPHONE NUMBER: A/H (+61) 417 188 935

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the MIXTURE

Hazard Classes and Hazard Categories	Hazard Statements
Acute Toxicity Oral Category 3	H301
Skin Corrosion / Irritation Category 2	H315
Eye Irritant Category 2A	H319
Carcinogenicity Category Category 1B	H350
Reproductive Toxicity Category 1A	H360
STOT SE Category 1	H370
STOT RE Category 1	H372
Acute Aquatic Toxicity Category 1	H400
Chronic Aquatic Toxicity Category 1	H410

### Hazard Pictograms



**Signal Word:** DANGER

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**Hazard Statements:**

H301	Toxic if swallowed.
H315	Causes skin irritation
H319	Causes serious eye irritation
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P210	Obtain special instructions before use
P260:	Do not breathe dust
P280	Wear eye protection, face protection, protective gloves, protective clothing
P284	Wear respiratory protection
P273	Avoid release to the environment
P501:	Dispose of contents / containers in accordance with local regulations.

**Response:**

P301+P310+P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340+P310	IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor / physician.
P305 + P351 + P338 +P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing Immediately call a POISON CENTER or doctor / physician.
P308+P313	If exposed or concerned: Get medical advice / attention.

**Storage**

P405	Store locked up.
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**Disposal**

P501	Dispose of contents/container in accordance with local/regional/national/international Regulations.
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**2.3 Other Hazards**

No data

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<i>Substance Name</i>	<i>Concentration %</i>	<i>Product Identifier CAS NO.</i>	<i>Hazard Classes and Hazard Categories</i>
Quartz (SiO <sub>2</sub> )	<5	14808-60-7	Carcinogen Category 1A, H350 STOT RE Category 1, H372
Copper as Copper Compounds	< 5	7440-50-8	STOT SE Cat 3, H355 STOT RE Cat 1, H373 Aquatic Chronic Cat 4, H410
Nickel as Nickel Compounds	< 5	7440-02-0	Skin Sens Cat 1, H314 Carcinogen Cat 2, H351 STOT RE Cat 1, H372
Lead as Lead Compounds	< 10	7439-92-1	Carcinogen Cat 2, H351 Repr Cat 1A, H361 STOT RE Cat 1, H373 Aquatic Acute Cat 1, H400 Aquatic Chronic Cat 1, H410
Zinc as Zinc Compounds	< 5	7440-66-6	Eye Irrit Cat 2A, H319 Aquatic Acute Cat 1, H400 Aquatic Chronic Cat 1, H410
Manganese as Manganese Compounds	< 5	7439-96-5	Skin Irrit Cat 2, H315 Eye Irrit Cat 2A, H319 Repr Cat 1B, H360 STOT SE Cat 1, H370 STOT RE Cat 1, H372 Aquatic Chronic Cat 4
Molybdenum as Molybdenum Compounds	< 5	7439-98-7	Skin Irrit Cat 2, H315 Serious Eye Cat 2A, H319 STOT SE Cat 3, H355
Arsenic as Arsenic Compounds	< 1.5	7440-38-2	Acute Toxicity Cat 2, H301, H331 Acute Aquatic Cat 1 H400 Chronic Aquatic Cat 1 H410
Bismuth Compounds	< 1.0	7440-69-9	STOT SE Cat1, H370 STOT RE Cat 1, H372
Cobalt Compounds	< 5	7440-25-7	Resp Sens Cat 1, H334 Skin Irrit Cat 2, H315 Aquatic Chronic Cat 1, H410
Cadmium Compounds	< 1.0	7440-43-9	Aquatic Acute Cat 1, H400 Aquatic Chronic Cat 1, H410

Ingredients either below cut off levels or not classified in Annex VI

<i>Substance Name</i>	<i>Concentration, %</i>	<i>Product Identifier</i>	<i>Hazard Classes and Hazard Categories</i>
Amorphous content	<15		Not classified
Augite	<15	(Ca,Na)(Mg,Fe,Al,Ti)(Si,Al) <sub>2</sub> O <sub>6</sub>	Not classified
Ilmenite	<5	FeTiO <sub>3</sub>	Not classified
Magnetite	<5	Fe <sub>3</sub> O <sub>4</sub>	Not classified
Sodium calcium plagioclase	<20	(Na,Ca)(Al,Si) <sub>2</sub> Si <sub>2</sub> O <sub>8</sub>	Not classified
Sodium plagioclase	<40	NaAlSi <sub>3</sub> O <sub>8</sub>	Not classified
Potassium Feldspar	<30	NaAlSi <sub>3</sub> O <sub>8</sub>	Not classified

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Silver as Silver compounds	< 0.1	CAS No. 4808-60-7	Ox Sol 2, H272 Skin Corr. 1B, H314 Aquatic Acute 1 H400 Aquatic Chronic 1, H410
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**4. FIRST AID MEASURES****4.1 Description of first aid measures****General Advice****If inhaled**

Remove victim to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor / physician.

**In case of skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/shower. Rinse skin with soap and water after manually handling, and wash contaminated clothing if there is potential for direct skin contact. Seek medical assistance if irritation persists or develops later

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor / physician

**If swallowed**

Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate attention and special treatment need**

No data available.

**5. FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Product is not flammable, combustible or explosive. Use extinguishing media appropriate for surrounding fire

**5.2 Special Hazards arising from the substance or mixture**

No data available.

**5.3 Advice for firefighters**

Use self contained breathing apparatus with full face mask if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use protective equipment and emergency procedures: Avoid dust formation. In case of dust exposure, wear protective equipment specified in Section 8 of this Safety Data Sheet.

**Environmental precautions:** No specific precautions. Discard any product, residue, disposable container or liner in compliance with regulatory requirements.

Methods and materials for containment and cleaning up

Avoid dry sweeping. Use water spraying / flushing or ventilated vacuum cleaning system. Use closed containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid dust formation. Do not breathe dust. Use adequate exhaust ventilation and dust collection. Do not rely on your sight to determine if dust is in the air. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with EN standards. Maintain and test ventilation and dust collection equipment. Wash clothing that has become dusty.

**Conditions for safe storage, including any incompatibilities:** Ensure trapping of dust produced during loading and unloading. Keep containers closed and store bags as to avoid accidental bursting.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** – exposure standards, biological monitoring

HSIS Airborne Exposure Limits: NOHSC Airborne Exposure Limits: Silica, Crystalline (Quartz) (CAS 14808-60-7): TWA 0.1 mg/m<sup>3</sup>; STEL: Not assigned. The exposure standards for the three forms of crystalline silica (quartz, cristobalite and tridymite) are 0.1 mg/m<sup>3</sup> (time weighted average, 8 hours). Appropriate engineering controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in Section 8.1 of this Safety Data Sheet.

### Personal protective equipment (PPE)

**Eyes:** If eye contact while using product may be anticipated, wear appropriate safety glasses with side shields or chemical goggles as described by European Standard EN 166

**Skin:** Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to minimize skin contact. Substance may have drying effect on skin. Maintain good industrial hygiene. Protection recommended for workers suffering from dermatitis or sensitive skin.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Respiratory Protection (AS/NZS 1715/1716 Approved): In case of exposure to dust, and in any case if such exposure is above regulatory limits (see above), wear a personal respirator

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form and Appearance: Light brown fine powder

Odour: Odourless

Solubility: no data available

SG: 2.65 approx.

Bulk Density: 1.0-1.3 approx

Melting Point: no data available

Boiling Point: no data available

Vapour Pressure: N/A

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Solubility: no data available e  
% Volatile: N/A  
pH (1%): 6-8

**10. STABILITY AND REACTIVITY**

Reactivity: Will not polymerise.  
Chemical Stability: Stable under normal temperatures and pressures.  
Hazardous Decomposition Products: Arsenic oxides.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects related to exposure to the mixture****Acute toxicity**

The acute toxicity estimate (*ATE*) for the mixture is LD50 Oral 273 mg/kg

**Skin corrosion /irritation**

No data available

**Serious eye damage / eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

This mixture contains components that have been reported to be carcinogenic based on their IAC, OSHA, ACGIH, NTP or EPA classification.

- IARC 1 - Group 1 Carcinogenic to humans (Quartz – Silicon dioxide)  
1 - Group 1 Carcinogenic to humans (Arsenic as Arsenic compounds)  
1 - Group 1 Carcinogenic to humans (Nickel as Nickel compounds)  
1 - Group 1 Carcinogenic to humans (Lead as Lead compounds)

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

This mixture contains components that have been reported to have toxicity to *Daphnia magna* (water fleas) of 8.23mg/l – 24 h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

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**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse affects**

Very toxic to aquatic life.

**13. DISPOSAL CONSIDERATIONS**

**Safe handling and disposal methods:** Offer surplus material to a licensed disposal company.

**Disposal of any contaminated packaging:** Dispose of container and unused contents in accordance with federal, state and local requirements.

**Environmental regulations:** No data

**14. TRANSPORT INFORMATION****14.1 UN Number**

ADR/RID: 2291

IMDG: 2291

IATA-DGR: 2291

**14.2 UN proper shipping name**

ADR/RID: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Chloride)

IMDG: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Chloride)

IATA-DGR: Lead compound, soluble, n.o.s (lead chloride)

**Land transport (ADR/RID):** UN-No.: 2291. Proper shipping name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Chloride) Class: 6.1. Classification Code: T5. Packing group: III. Special provision(s): 199. Hazard Label:



Hazchem Code: ZZ

**Sea transport (IMDG Code):** UN-No.: 2291. Proper shipping name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Chloride). Class: 6.1. Packing group: III. Marine Pollutant: yes. Special provision(s): 199. EMS: F-A, S-A. Storage: Category A. Hazard Labels:



**International Air Transport (ICAO):** UN No: 2291. Shipping name: Lead Compound, Soluble, N.O.S. (Lead Chloride); Class 6.1; Packing Group III. Special provision(s): 199. Hazard Label:



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**15. REGULATORY INFORMATION**

15.1 Safety health and the environment regulation / legislation specific for the substance / mixture

Notification status

**AICS:** All components of this product are on the inventory or in compliance with the inventory

**DSL:** All components of this product are on the Canadian DSL

**ENCS:** All components of this product are on the inventory or in compliance with the inventory

**IECSC:** All components of this product are on the inventory or in compliance with the inventory

**ISHL:** All components of this product are on the inventory or in compliance with the inventory

**KECI:** All components of this product are on the inventory or in compliance with the inventory

**NZIoC:** All components of this product are on the inventory or in compliance with the inventory

**PICCS:** All components of this product are on the inventory or in compliance with the inventory

**16. OTHER INFORMATION**

*The above information is accurate to the best of the knowledge available to us. However since data safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control we make no warranty, whether express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Users should satisfy themselves that they have all current data relevant to their particular use.*