

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CALCINED BAUXITE

Recommended Use: ALUMINIUM PRODUCTION, METAL ALLOYS.

Supplier: PARADISE MINERALS

221 RUNWAL HEIGHTS, L.B.S. MARG,

OPP: NIRMAL LIFESTYLE, MULUND (WEST)

MUMBAI - 400080

INDIA

Telephone Number: 91-22-25908264

Facsimile: +91-22-25908265

Emergency Telephone: 9820635370

2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of NOHSE; NON-HAZARDOUS,

HARMFUL

R20 Harmful by inhalation, R40 CABAUX Possible risk of irreversible effects.

Road and Rail; NON-DANGEROUS GOODS.

Poisons Schedule: None allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS Number Proportion Risk Phrases

Al₂O₃ : 84% to 86%

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed

If poisoning occurs, contact a Doctor or Poisons Information Centre. DO NOT induce vomiting without first seeking medical advice. Ingestion is considered unlikely due to product form.

Eye

Flush gently with running water. Seek medical attention if irritation develops.

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Skin

Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before reuse.

Inhaled

If overexposure to dust occurs, leave exposure area immediately. Seek medical attention if symptoms develop.

Advice to Doctor

Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions. Prevent contamination of drains and waterways by

extinguishants. Absorb runoff with sand or similar.

Hazards from Combustion Products

Non-flammable. Caution : in bulk, dry powder may build up static electric charge when subject to the friction of conveying, mixing or sliding. Evacuate area and contact emergency services. Remain upwind and notify.

those downwind of hazard.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact.

Avoid breathing in dust. Work up wind or increase ventilation. Collect and seal in properly labelled containers or drums for

disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure an eye bath and safety shower are available and ready for use.

Conditions for safe storage, including any incompatibles

Store in a cool, dry, well-ventilated area, removed from chlorine trifluoride, hot chlorinated rubber, ethylene oxide, alkaline solutions and foodstuffs. Ensure containers are adequately labelled, protected from physical

damage and sealed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric

contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing

lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in

dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation,

the physical form of the chemical, the handling methods, and environmental factors.

Orica Personal Protection Guide No. 1, 1998: E - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST

MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If excessive dust exists, wear

dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking,

eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder

Colour: off white, Brownish

Odour: Odourless

Molecular Formula: Al₂O₃, Fe₂O₃, SiO₂

Solubility: Insoluble in water.

Specific Gravity: 2.5 to 3.5

Relative Vapour Density (air=1): Not applicable

Vapour Pressure (20 °C): Not applicable

Flash Point (°C): Not applicable

Flammability Limits (%): Not applicable

Autoignition Temperature (°C): Not applicable

Melting Point/Range (°C): 2050

pH: Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Avoid dust generation. Avoid exposure to moisture.

Incompatible materials: Incompatible with strong acids , and strong oxidising agents .

Hazardous decomposition

products:

None known.

Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product

label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Skin contact: Repeated or prolonged skin contact may lead to irritation.

Inhalation: Breathing in dust may result in respiratory irritation.

Long Term Effects:

Not listed as carcinogenic according to IARC.

Toxicological Data:

Oral LD50 (rat): >5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to local government authority for disposal recommendations. Normally suitable for disposal at approved land waste

site.

14. TRANSPORT INFORMATION

Road and Rail Transport

Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for

transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods

Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification: Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule: None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

This safety data sheet has been prepared by Orica SDS Services.

Reason(s) for Issue:

Reissue of an obsolete MSDS

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material

and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control

the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising

from its use of the material.

If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the

contact details on page 1.

Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is

available upon request.