



SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

IDENTIFICATION

Product Name	Brown Aluminum Oxide
Usage	Blast cleaning, deburring, surface profiling and roughening
CAS No.	1302-74-5

COMPANY DETAILS

Company Name	Parmadar Pte Ltd
Address	34 Pioneer Sector 2, Singapore 628389
Telephone	(65) 6861 0328 / (65) 9730 1750
Email Address	sales@parmadar.com

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition & Description	<p>Al₂O₃ - 94.50 to 97.00%</p> <p>TiO₂ - 1.50 to 3.80%</p> <p>Fe₂O₃ - < 0.5%</p> <p>SiO₂ - <1.5%</p> <p>CaO - < 0.6%</p> <p>Quartz (free silica) – Below 0.5%</p>
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[^] The above chemical composition reading serves as a guideline only. Variations to these results are expected due to variations in raw feed.

SECTION 3. HAZARD IDENTIFICATION

Classification	<p>Not subject to labelling requirements according to CLP Regulation 1272/2008/EC</p> <p>However, adhere to the information in this safety data sheet.</p> <p>No silicosis hazard derives from its use.</p>
Human Health Effects	<p>The material is not considered hazardous in normal use but the following potential hazards should be recognized :</p> <p>a) Dust – Inhalation (Sect 8.0)</p> <p>b) Skin irritation in susceptible individual</p> <p>c) Risk of dust explosion</p>



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Environmental Effects	On the basis of information available, these products are not expected to produce any significant adverse environmental effects when recommended use instructions are followed. They are slowly biodegradable and are used as slow release nitrogen sources when used in pure form.
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SECTION 4. FIRST AID MEASURE

Skin Contact	Wash with plenty of water with soap. If irritation persists or any sign of tissue damage is apparent, obtain medical advice immediately. As with any industrial product, contact with skin can cause irritation leading in some cases to dermatitis and it is wise to take the usual precautionary measures of obtaining medical clearance for employees who have a history of skin disease or allergy. The use of an emollient such as white petroleum jelly (Vaseline) is useful to minimise dryness of the skin if it occurs. Always seek professional medical advice if irritation persists.
Eye Contact	Irrigate with copious quantity of water for at least 10 minutes and obtain medical advice if irritation persists or if there is any tissue damage.
Inhalation	In the event of exposure to levels above those stated at section 8.0, evacuate individual concerned to a dust free environment, preferably into fresh air. If respiratory difficulties are encountered seek medical advice immediately.
Ingestion	The material should not be ingested and for this reason the preparation and consumption of food and drink in working areas should not be allowed. Rinse mouth with water and obtain medical advice immediately when accidentally ingested.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media	Product does not burn. Match extinguishing measures to surroundings
Exposure Hazards	This product will not ignite unless suspended as dust in sufficient concentration in air, in which case for decomposition and explosion limits refer to section 10.
Protective Equipment	Fire fighters & others exposed must wear self-contained breathing apparatus and be aware of other combustible substances involved in any fire.

SECTION 6. ACCIDENTAL RELEASE MEASURE

Personal Precautions	Avoid dust inhalation
Environmental Precautions	Do not allow to enter drains and water courses.
Methods of Cleaning Up	Vacuum or sweep up, for disposal see section 13. If sweeping, be mindful of dust generated by sweeping action, restrict where possible.



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SECTION 7. HANDLING & STORAGE

Handling	Handle in normal manner and be mindful of manual handling methods (weights), keep dusts formation to a minimum.
Storage	Store in closed bags / containers in dry well-ventilated areas <50% humidity and ambient temperatures below 30°C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measure	In a blasts cabinet with dust collectors or a closed circuit blast cleaning system are preferred methods of use. If a blast room is used, it must have a dust extraction system to keep dust levels below the occupational exposure limits. Ventilation of cabinets and rooms should be 75 air changes per hour for optimum operational conditions.
Respiratory & Eye Protection	In blasting environments if a blast room is used, an air fed blast helmet with built in visor to EN146 must be used. For applied, poured and added applications wear approved dust mask and eye protection if applicable.
Skin & Hand Protection	Refer to Section 4 'Skin Contact'
Ear Protection	Wear hearing protecting when blasting and in other applications abide by noise regulations dictated by employer/workplace regulations and legislations.

SECTION 9. PHYSICAL / CHEMICAL PROPERTIES

Melting Point	Approx 2000°C
Specific Gravity	Min. 3.9 g/cc
Water Solubility	Not Soluble
Appearance & Colour	Free-flowing / Dark brown colour
Odour	Odourless
Hardness	9.0 MOHS
Evaporate Rate	Not Applicable.

SECTION 10. STABILITY & REACTIVITY

Conditions to avoid	In case of appropriate use, there are no known conditions to be avoided
Hazardous Decomposition	In case of appropriate use, there are no known hazardous decomposition products.
Materials to avoid	In case of appropriate use, no hazardous reactions are to be expected.



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SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation	Can cause irritation to respiratory tract
Ingestion	Extremely low order of toxicity
Skin Contact	Powders can be irritants for particular sensitive subjects
Eye Contact	Powders can cause eye irritations
Toxicity	Not known for toxicity

SECTION 12. ECOLOGICAL INFORMATION

Eco Toxicity	No ecological problems are to be expected if product is handled and used correctly.
Mobility & Bioaccumulation	No bioaccumulation is to be expected.
Persistence & biodegradability	The product is inert and degradable.
Aquatic plants	There are no harmful effects on water organisms.
Other harmful effects	No known harmful effects.

SECTION 13. DISPOSAL CONSIDERATIONS

In accordance with the Environmental Protection Act (Duty of Care) Regulations 1991, in use as a blast media the product is likely to become mixed with the stripped coating and or some substrate. These need to be taken into account during disposal. Subject to material removed by media in application the material can be incinerated, land filled or in certain circumstances it may require pre treatment or hazardous disposal. This latter will only occur if a coating/substrate is classified as hazardous.

SECTION 14. TRANSPORT INFORMATION

Land Transport (ADR/RID)	Not classified according to Transport Regulations for Hazardous / Dangerous Goods.
Marine Transport (IMO/IMDG)	Not classified according to Transport Regulations for Hazardous / Dangerous Goods.
Air Transport (IATA)	Not classified according to Transport Regulations for Hazardous / Dangerous Goods.



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SECTION 15. REGULATORY INFORMATION

Classification	This product is not hazardous according to Directive 67/548/CE and 199/45/CE, OSHA's Federal hazard
Labelling Requirement	Not subject to labeling in accordance with current regulations in force

OTHER INFORMATION

Use	These products are to be used as blast medias, slip resistant materials, abrasive aggregates. If they are used for any other purpose, the advice of Parmadar should be sought regarding any additional hazards that may arise.
General	The information contained in this safety data sheet is based upon our present knowledge. The information is presented with the intention of describing the safest way of handling the product. The safety data sheet is therefore not to be regarded as a complete chemical description of the product. Consequently, the user is responsible for making sure that the product is meant to be used in the actual field of application and that it serves the purposes intended.