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MATERIAL SAFETY DATA SHEET

Section 1 – Identification of the Substance and of the Company	
Product Name TAIKO® Activated Clays	Chemical Name Bentonite, acid activated CAS Number 70131-50-9 EINECS Number :274-324-8 Synonym: Activated Bleaching Earth
Company Identification	
Contact Taiko Clay Marketing Sdn Bhd 39, Persiaran Zarib 1, Taman Pinji Mewah, 31500 Lahat, Perak, Malaysia.	Telephone Number + 605 323 2218 Fax Number + 605 323 2216

Section 2 – Hazards Information			
Possible short-term effects of exposure : -			
Skin Contact Irritation, Soreness, Cracking of Skin	Eye Contact Irritation, Redness, Soreness	Inhalation Irritation of nose and mouth	Ingestion Gastric irritation

Section 3 – Chemical Composition															
Chemical Composition <table> <tr> <td>SiO₂</td> <td>55 – 80</td> </tr> <tr> <td>Al₂O₃</td> <td>5 – 20</td> </tr> <tr> <td>Fe₂O₃</td> <td>2 – 10</td> </tr> <tr> <td>MgO</td> <td>0 – 8</td> </tr> <tr> <td>CaO</td> <td>0 – 5</td> </tr> <tr> <td>Na₂O</td> <td>0 – 2</td> </tr> <tr> <td>K₂O</td> <td>0 – 2</td> </tr> </table>	SiO ₂	55 – 80	Al ₂ O ₃	5 – 20	Fe ₂ O ₃	2 – 10	MgO	0 – 8	CaO	0 – 5	Na ₂ O	0 – 2	K ₂ O	0 – 2	Notes: Analysis may vary with clay source and is quoted as % dry weight. Elements present in the clay have been expressed as their oxides.
SiO ₂	55 – 80														
Al ₂ O ₃	5 – 20														
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CHIP/RISK/SAFETY Classification

This product is not a dangerous substance under the Classification, Packaging and Labeling Regulations.

Do not breathe dust and use only in well-ventilated areas.

Section 4 – First Aid Measures**Skin Contact**

Irrigate thoroughly with cold water and if symptoms persist seek medical attention.

Eye Contact

Irrigate thoroughly with cold water. Seek medical attention if symptoms persist.

Inhalation

Remove person to fresh air, loosen clothing and seek medical attention.

Ingestion

If small amounts, drink copious amounts of water. If large amounts are ingested seek medical attention.

Section 5 – Fire-Fighting Measures

Non-combustible.

Use extinguisher to suit cause of fire.

Product may be a slip hazard when wet.

Section 6 – Accidental Release Measures

Sweep up or vacuum spilled product and dispose off in accordance with local regulations.

Avoid generating excessive dust and if necessary wear protective clothing.

(See Section 8)

Section 7 – Handling and Storage**Handling**

Handle using methods, which minimize creation and dispersion of dust.

Ensure adequate ventilation at point of use.

Use a NIOSH/EN/DOSH approved respirator where the dust levels are above OEL value.

Storage

Store in a dry environment. High humidity causes caking of the powder.

Isolate from toxic substances to avoid contamination. Avoid unsegregated storage with incompatible materials, which decompose in the presence of dusts and weak acid such as cyanides, sulphates and peroxides.

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Avoid long-term contact with galvanized or mild steel surfaces under damp conditions.
Avoid storage with unsaturated organic compounds.

Section 8 – Exposure Controls / Personal protection

<p>Hand Protection Wear PVC or rubber gloves.</p>	<p>Skin Protection Normal work wears. No further skin protection required unless there is a possibility of prolonged personal contact then appropriate protective skin cover is recommended.</p>
<p>Eye Protection Wear safety glasses with side shields. Eye wash bottles should be provided at places where accidental exposure may be possible. Contact lenses should not be worn.</p>	<p>Respiratory Protection NIOSH/EN/DOSH approved respirators should be used if the Occupational Exposure Standard (OES) or TLVs cannot be met even after instituting engineering controls.</p>

Maximum Occupational Exposure Limits (MOEL)
in terms of respirable crystalline silica:-
WEL/OES HSE (UK) : 0.3mg/m³ TWA
MAC- MSZW (Netherlands) : 0.075mg/m³ TWA
ACGIH (USA) : 0.05mg/m³ TWA
Due to variation in MEOL, users are advised to refer to the relevant MEOL adopted in the countries concerned.
TWA quoted above are for 8-hour time weighted average.

Section 9 – Physical and Chemical Properties

<p>Appearance Free flowing powder</p>	<p>Odour Odourless</p>	<p>pH Mildly acidic in suspension</p>
<p>Boiling Point Not applicable</p>	<p>Melting Point Not applicable</p>	<p>Flash Point Not applicable</p>
<p>Flammability Not flammable</p>	<p>Explosive Properties Non-explosive</p>	<p>Oxidizing Properties None</p>
<p>Vapour Pressure Not applicable</p>	<p>Relative Density 350 – 1000kg/m³</p>	<p>Solubility Negligible solubility in water, solvents or oil.</p>

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Section 10 – Stability and Reactivity

Conditions to Avoid	Materials to Avoid	Hazardous Decomposition Products
Avoid exposure to water	Avoid metals especially when wet since hydrogen gas may be liberated (explosion hazard). Avoid contact with unsaturated organic materials as product may cause polymerization with generation of heat.	Dry products – None The product saturated with oxidisable liquid can lead to spontaneous heating effects, which may result in a fire.

Section 11 – Toxicology Information

Ingestion	Mixture is orally non-toxic.
Eye Contact	Irritant due to physical abrasion effect of powder, which may be slightly acidic.
Skin Contact	Non-irritant.
Long Term Exposure	Long-term exposure to dust in excess of the Occupational Exposure Standard may result in fibrosis of the lung tissue.

Section 12 – Ecological Information

There are no known ecological problems associated with this product.

Section 13 – Disposal Consideration

Dispose off in accordance with local and federal regulations, using an approved waste disposal contractor.

Section 14 – Transport Information

There are no specific transportation precautions required. However, open vehicles should be sheeted/covered to prevent products from being wetted. This product is not classed as a dangerous substance under the classification, packaging and labeling of dangerous substance regulations.



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Section 15 – Regulatory Information

15.1 Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 88/379/EEC. These regulations do not apply.

15.2 Do not breathe dust and use only in well-ventilated areas.

Section 16 – Other Information

MSDS First Issued	01 st June 1998
MSDS Date 1 st Revised	12 th July 2006
MSDS Date 2 nd Revised	5 th April 2010
MSDS Date 3 rd Revised	2 nd June 2010
MSDS Date 4 th Revised	26 th September 2011
