



JJS Minerals^{co.}

SAFETY DATA SHEET

1. Chemical Product and Company

Identification

Product name: **High Density Diatomite**
 Generic name: Natural Diatomaceous Earth
 Chemical name: Amorphous Silicate
 Supplier: Mineral Resources Company S.A
 1333 Av.La Libertad
 San Miguel
 Lima
 PERU

2. Composition

Chemical Characterization

Composition of product and chemical contents indicating dangerous components:

	<u>CAS NUMBER</u>	
Natural Diatomaceous Earth (DE)	61790-53-2	100%
Amorphous Silica		

3. Hazards Identification

Health: According to experience, the product is considered to be harmless if handled in the correct manner.
 Environmental: According to experience, the product is considered to be harmless to the environment if handled in the correct manner.
 Further Information: Contains Substances with Occupational Exposure Limits.

4. First Aid Measures

After Inhaling: Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.
 After Skin Contact: None.
 After Eye Contact: Flush eyes with large quantities of water. If irritation persists, consult a physician
 After Ingestion: None

5. Fire Fighting Measures

Flash Point: Non flammable.
 Flammable Limits: N/A.

6. Accidental Release

Personal protection: Avoid breathing dust, avoid contact with eyes
 Environmental
 Precautions: No special measures required: Comply with local regulations.
 Spillage and
 Decontamination: Avoid creating dust. Collect by vacuum cleaning into bags.



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7. Handling and Storage

Handling:	Use appropriate engineering controls to avoid dust. Ensure there is sufficient ventilation of the area. Avoid contact with skin/eyes. When using to not eat, drink or smoke. Wash hands and exposed skin before meals and after work. Wet powder on floor could be slipping hazard.
Storage:	Store dry and cool, in a covered area.
Packaging:	250kg Big bags.

8. Exposure Controls /Personal Protection

Monitoring of the workplace should be considered in accordance with Community Exposure Limits (EH40 etc) or other data as indicated below:

OES data for Diatomaceous earth natural respirable dust EH40(2002)	LTEL(8hour TWA)	ppm	1.2	mg/m ³
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Engineering controls:	Ensure there is sufficient ventilation of the area. Provide powered extraction when ventilation is inadequate.
Personal protection:	Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task(see below). Avoid breathing dust.
Respiratory protection:	Respiratory masks to achieve the adequate protection in respect of exposure limits for the work period concerned. Masks should conform to EN 149FFP2.
Eye protection:	Safety goggles with side shields. Eye protection should conform to BSEN 166.
Other protection:	Personal protective equipment should be selected as appropriate to the nature and aggressiveness of the identified hazard(s). It should be regularly inspected for such things as soundness against leaks, bad fitting and possible chemical penetration. Recommended safe user periods should never be exceeded.

9. Physical and Chemical properties.

Appearance:	Off White fine powder.
Odour:	None
Molecular formula:	SiO ₂ (Main component is amorphous silica dioxide)
Boiling Point:	Decomposes .2200°C
Melting Point:	Appr. 1800°C
pH:	No data
Flash Point °C:	Not applicable
Flammability:	Not applicable



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9.cont.

Oxidising:	No data
Vapour Density:	Not applicable
Vapour Pressure:	Not applicable
Density:	Natural diatoms in bulk: 0.15-0.45g/cc
Solubility in Water:	insoluble
Solubility in Organic Solvents:	No data
Part.coeff. n-octanol/water:	No data.
Additional Information:	Material is highly Absorbent.

10. Stability and Reactivity

Stability:	Product is very stable under normal conditions of handling.
Condition to avoid:	Data not supplied
Materials to avoid:	Data not supplied
Hazardous reactions:	None known.

Hazardous combustion
or decomposition product: Not known

11.Toxicological Information

Inhalation:	Inhalation of dust can cause transitory irritation of the upper Respiratory tract.
Inhalation LD ₅₀ :	No available data.
Oral LD ₅₀ :	Rat>2.5g/kg
Skin Contact:	No available data.
Dermal LD ₅₀ :	No available data
Eye Contact:	Contact with eyes may cause some irritancy due to scratching of the eyeball.
Mutagenecity, Carcinogenicity:	No available data.
Reproductive Toxicity:	No available data
Further Information:	Chronic toxicity. Prolonged and repeated exposure by excessive inhalation of dust can cause pulmonary disease.



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12. Ecological Information

Not inherently toxic. Large deposits may cause temporary disruption of the aquatic system. Report any contamination of surface or ground waters to the Rivers Authority or River Purification Board.

Ecotoxicity:	NOEL fish:> 10g/1/96h. NOEL Daphnia:> 1g/1/24h.
Mobility:	No data
Persistence and Degradability:	Not degradable.
Bioaccumulative Potential:	No data.

13. Disposal Considerations

Waste Disposal: Dispose of at an authorised waste disposal site(consult local Environment Agency office for details on regulations and available sites).

14. Transport Information

Additional Information: Not classified as dangerous goods.

15. Regulatory Information

Designations according to EC guidelines: See section 2
 Water Hazard Class: Water hazard class 0(self assessment) :generally not hazardous for water.

16. Further Information

The purpose of the above information is to describe the product only in terms of health and safety requirements and should not therefore, be construed as guaranteeing specific properties or as a specification.