Material Safety Data Sheet

1. PRODUCT DESCRIPTION AND COMPANY IDENTIFICATION

Product Name: Particles of Wakkanai Diatomite
CAS Number: 61790-53-2
Formula: Predominantly SiO₂
Synonyms: Diatomaceous Earth
Distributor: Wakkanai Green Factory Corporation
           1086 Masuhoro, Soya-mura,
           Wakkanai, Hokkaido 098-6644, Japan
Tel: +81-162-25-2641
Fax: +81-162-25-2733

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Particles of Wakkanai Diatomite were made by crushing the natural diatomaceous earth, and the average of chemical composition obtained by the analysis of X-ray fluorescence is as follows.

SiO₂ 90%, Al₂O₃ 5%, Fe₂O₃ 2%, K₂O 0.8%, SO₃ 0.3%, Na₂O 0.3%

Mineralogy: From the results of X-ray diffraction, the main component of SiO₂ consist of amorphous silica of Opal-A. Slightly quartz and cristobalite are included as crystalline silica.

3. HAZARD IDENTIFICATION

May be harmful if inhaled and ingested.
May cause eye and skin irritation.
Diatomaceous earth is not classified as hazardous. However, it slightly contains crystalline silica which is classified as carcinogens. (Classified into the Group 1 carcinogens in the criteria of IARC)

4. FIRST AID MEASURES

General advice: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

Eye contact: Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers.

Inhalation: Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

Skin contact: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

Ingestion: Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIRE FIGHTING MEASURES

Combustion: Incombustible material.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Increase the ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

Storage: Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits apply
Diatomaceous earth: ACGIH(2001) TLV-TWA 10 mg/m³
Quartz: ACGIH(2001) TLV-TWA 0.05 mg/m³
Cristobalite: ACGIH(2001) TLV-TWA 0.05 mg/m³

Personal Protection
Respiratory protection: properly fitted half-face or full-face air-purifying respirator.
Hand protection: Chemical resistant gloves.
Eye protection: Safety glasses (goggles).
Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: particles, yellowish brown.
Solubility in water: Insoluble
Melting point: Not available
Boiling point: Not available
Flammability: Nonflammable
Specific gravity: Not available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

No available data for the diatomaceous earth.

However, this product includes slight crystalline silica. Crystalline silica has been classified into Group 1 carcinogens by IARC. The detail of the group 1 is as follows. With prolonged or repeated exposure of Group 1 material, bronchitis, silicosis (scarring of the lungs) and lung cancer may occur.
12. ECOLOGICAL INFORMATION

No data is available for this product.

13. DISPOSAL CONSIDERATION

Dispose in a hazardous-waste site in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

IATA : Not Restricted.
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping.

15. REGULATORY INFORMATION

Chemical Inventory Status - Part 1

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<td>Yes</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Cristobalite (14464-46-1)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Quartz (14808-60-7)</td>
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</table>

16. Other information

No specific notes

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and we shall not be held liable for any damage resulting from handling or from contact with the above material.

Created: 14/04/2006
Last updated: 08/11/2007