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Japan / English

**1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

**Product Name** MetaDi Oil-Based Suspension  
**Product Code(s)** 40-6538, 40-6539, 40-6540, 40-6541, 40-6542, 40-6543, 40-6544, 40-6545, 40-6546  
**(M)SDS Number** 1353241\_J

**Other means of identification**

**Synonyms** No information available  
**Registration Number** No information available

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Laboratory Use Only  
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer** Buehler  
**Manufacturer Address** Loop-X 6th Floor 3-9-15  
kaigan Minato-ku, Tokyo 108-0022  
www.buehler.com/Japan  
**Phone number** +81 (0)3 5439 5077  
**E-mail Address** info.japan@buehler.com

**Emergency telephone number**

Global Access Code: 334545  
Asia Pacific: +1 760 476 3960 Americas: +1 760 476 3962  
Middle East/Africa: +1 760 476 3959 Europe: +1 760 476 3961  
Japan: +81 36 8908677

**2. HAZARDS IDENTIFICATION****GHS Classification**

|                     |            |
|---------------------|------------|
| Aspiration toxicity | Category 1 |
|---------------------|------------|

**Label elements**



Signal word

Danger

**Hazard statements**

H304 - May be fatal if swallowed and enters airways

**Precautionary Statements - Prevention**

Avoid release to the environment

**Precautionary Statements - Response**

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

Collect spillage

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

| Chemical name                             | Percent  | Inventory - Japan - Existing and New Chemical Substances (ENCS) | ISHL No.                 | CAS-No     |
|---|----------|---|--------------------------|------------|
| Petroleum distillates, hydrotreated light | 65 - 95% | No information available  | No information available | 64742-47-8 |
| Quaternium-18 bentonite                   | 2 - 6%   | No information available  | No information available | 68953-58-2 |
| Diamond                                   | 0 - 1%   | No information available  | No information available | 7782-40-3  |
| Quartz                                    | < 0.1%   | (1)-548   | No information available | 14808-60-7 |

**Pollutant Release and Transfer Registry (PRTR)**

Not applicable.

**Industrial Safety and Health Law**

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

| Chemical name   | ISHL Notifiable Substances | Threshold Values (%) |
|---|----------------------------|----------------------|
| Petroleum distillates, hydrotreated light<br>64742-47-8 | ISHL Notifiable Substances | 1                    |
| Quartz<br>14808-60-7                                    | ISHL Notifiable Substances | 0.1                  |

Poisonous and Deleterious Substances Control Law Not applicable

#### 4. FIRST AID MEASURES

##### First aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>                         | Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. |
| <b>Eye contact</b>                        | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.   |
| <b>Skin contact</b>                       | Wash skin with soap and water.   |
| <b>Ingestion</b>                          | Aspiration hazard if swallowed - can enter lungs and cause damage. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.   |
| <b>Symptoms</b>                           | Difficulty in breathing. Coughing and/ or wheezing. Dizziness.   |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.  |
| <b>Note to physicians</b>                 | Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.  |

#### 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>Flammable Properties</b>                           | Not flammable.   |
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>                 | No information available.  |
| <b>Specific hazards arising from the chemical</b>     | No information available.  |
| <b>Hazardous Combustion Products</b>                  | Carbon oxides.   |
| <b>Special Extinguishing Media</b>                    | Cool drums with water spray.   |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

#### 6. ACCIDENTAL RELEASE MEASURES

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Ensure adequate ventilation. Use personal protective equipment as required. |
| <b>Other Information</b>    | Refer to protective measures listed in Sections 7 and 8.                    |

|  |   |
|--|---|
| <b>For emergency responders</b>        | Use personal protection recommended in Section 8.   |
| <b>Environmental precautions</b>       | See Section 12 for additional Ecological Information.   |
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for cleaning up</b>         | Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                |
| <b>Reference to other sections</b>     | See section 8 for more information. See section 13 for more information.                            |

## 7. HANDLING AND STORAGE

### Handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Storage

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure guidelines

| Chemical name   | Japan                       | ISHL Working Environmental Evaluation Standards - Administrative Control Levels | ACGIH TLV   |
|---|-----------------------------|---|---|
| Petroleum distillates, hydrotreated light<br>64742-47-8 | -                           | -   | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>(as oil mist) |
| Quartz<br>14808-60-7                                    | TWA: 0.03 mg/m <sup>3</sup> | -   | TWA: 0.025 mg/m <sup>3</sup> respirable fraction                        |

**Biological occupational exposure limits** Not applicable

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Personal Protective Equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Suspension               |
| <b>Appearance</b>     | Varies                   |
| <b>Odor</b>           | Characteristic           |
| <b>Color</b>          | No information available |
| <b>Odor Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>            | <u>Remarks</u> | <u>Method</u> |
|--|--------------------------|----------------|---------------|
| pH                                     | No data available        |                |               |
| Melting / freezing point               | No data available        | None known     |               |
| Boiling point / boiling range          | 218°C                    |                |               |
| Flash Point                            | > 94°C                   |                |               |
| Evaporation Rate                       | No data available        | None known     |               |
| Flammability (solid, gas)              | No data available        | None known     |               |
| Flammability Limit in Air              |                          | None known     |               |
| Upper flammability limit               | No data available        |                |               |
| Lower flammability limit               | No data available        |                |               |
| Vapor pressure                         | No data available        | None known     |               |
| Vapor density                          | No data available        | None known     |               |
| Relative density                       | 0.80                     |                |               |
| Water Solubility                       | Insoluble in water       |                |               |
| Solubility(ies)                        | No data available        | None known     |               |
| Partition coefficient: n-octanol/water | No data available        | None known     |               |
| Autoignition temperature               | No data available        | None known     |               |
| Decomposition temperature              | No data available        | None known     |               |
| Kinematic viscosity                    | No data available        | None known     |               |
| Viscosity                              | No data available        | None known     |               |
| Explosive properties                   | No information available |                |               |
| Oxidizing properties                   | No information available |                |               |
| <b>Other Information</b>               |                          |                |               |
| Softening Point                        | No information available |                |               |
| Molecular Weight                       | No information available |                |               |
| Liquid Density                         | No information available |                |               |
| Bulk Density                           | No information available |                |               |
| Particle Size                          | No information available |                |               |
| Particle Size Distribution             | No information available |                |               |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | No information available.                 |
| <b>Stability</b>                          | Stable under normal conditions.           |
| <b>Explosion Data</b>                     |   |
| <b>Sensitivity to Mechanical Impact</b>   | None                                      |
| <b>Sensitivity to Static Discharge</b>    | None                                      |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Hazardous Polymerization</b>           | Hazardous polymerization does not occur.  |
| <b>Incompatible materials</b>             | None known based on information supplied. |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides.                            |

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.                      |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. May cause irritation.  |
| <b>Skin contact</b> | Repeated exposure may cause skin dryness or cracking.  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. |
| <b>Symptoms</b>     | Difficulty in breathing. Coughing and/ or wheezing. Dizziness.   |

**Numerical measures of toxicity - Product Information****Unknown acute toxicity**

- 7 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Numerical measures of toxicity - Component Information**

| Chemical name  | Oral LD50           | Dermal LD50           | Inhalation LC50     |
|--|---------------------|-----------------------|---------------------|
| Petroleum distillates,<br>hydrotreated light<br>64742-47-8 | > 5000 mg/kg (Rat)  | > 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4h |
| Quartz<br>14808-60-7                                       | = 500 mg/kg ( Rat ) | -                     | -                   |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |                           |
|--|---------------------------|
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Respiratory or skin sensitization</b> | No information available. |
| <b>Germ cell mutagenicity</b>            | No information available. |
| <b>Carcinogenicity</b>                   | No information available. |

| Chemical name        | GHS-Carcinogenicity | IARC    |
|----------------------|---------------------|---------|
| Quartz<br>14808-60-7 | 1A                  | Group 1 |

|                                 |  |
|---------------------------------|--|
| <b>STOT - single exposure</b>   | No information available.                          |
| <b>STOT - repeated exposure</b> | No information available.                          |
| <b>Target Organ Effects</b>     | Respiratory system. Central Vascular System (CVS). |
| <b>Aspiration hazard</b>        | May be fatal if swallowed and enters airways.      |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Percentage for unknown hazards** 6.95 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**Persistence and Degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Mobility in soil** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**IMDG** NOT REGULATED

**ADR** NOT REGULATED

**IATA** NOT REGULATED  
**Proper Shipping Name** NON REGULATED

**Japan**  
**Hazard Class** N/A

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National Regulations

#### Japan

**Pollutant Release and Transfer Registry (PRTR)**  
 Not applicable

#### **Industrial Safety and Health Law**

**Harmful Substances Requiring Workers to Subject to Medical Exams**

Medical Examination - Industrial Safety and Health Law article 66, enforcement order article 22, and the Ordinance on Prevention of Hazards Due to Specified Chemical Substances, Table 5

**Organic solvents**

Organic solvents class 3 - Industrial Safety and Health Law enforcement order Table 6-2 (related to article 6, article 21, article 22, and the Ordinance on Prevention of Organic Solvent Poisoning)

**Dangerous Substances**

Industrial Safety and Health Law enforcement order Table 1 (related to article 6 and article 9-3)

Flammable substance

**Harmful Substances Whose Names Are to be Indicated on the Label**

Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57 and ISHL Ordinance Article 33)

**ISHL Notifiable Substances**

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

**Fire Service Law:**

Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met

| Chemical name  | Fire service law group | Hazardous material | Hazard rank |
|--|------------------------|--------------------|-------------|
| Petroleum distillates, hydrotreated light 64742-47-8 | 4                      | Flammable liquids  | III         |

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**

Not applicable

**Air Pollution Control Law**

Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

|                      |   |
|----------------------|---|
| <b>TSCA</b>          | Contact supplier for inventory compliance status. |
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status. |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AICS</b>          | Contact supplier for inventory compliance status. |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION**



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**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | -    | Skin designation                 |
| C       | Carcinogen                  |      |                                  |

**Disclaimer**

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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**End of Safety Data Sheet**