

BIO ELETUS

Biodegradable Electrical Insulating Oil

BIO ELETUS based on polyol ester is the biodegradable insulating oil which has low flammability and anti-oxidation property. **BIO ELETUS** is one of Eco-Mark products which are certified by the Japan Environment Association.

● Special Features

1. Readily biodegradable
2. Outstanding oxidation and thermal stability
3. Low flammability

● Applications

For high pressure large-capacity transformers, pole transformer and oil-breakers

● Containers

200-liter drums

● Typical properties of BIO ELETUS

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|---------------------------------------|---------------------|--------------------|
| Density (15°C) | g/cm ³ | 0.974 |
| Kinematic viscosity (40°C) | mm ² /s | 30.6 |
| | (100°C) | mm ² /s |
| Flash point (COC) | °C | 274 |
| Combustion point | °C | 318 |
| Pour point | °C | < -50 |
| Acid number | mgKOH/g | 0.01 |
| Corrosive sulfur (140°C ,19h) | | Non corrosive |
| Oxidation stability (120°C,75h) | Sludge mass% | 0.01 |
| | Acid number mgKOH/g | 0.03 |
| Dielectric breakdown voltage (2.5 mm) | kV | 81 |
| Power factor (80°C) | % | < 0.01 |
| Specific resistivity (80°C) | T Ω ·m | 2.30 |
| Biodegradability(OECD 301B, 28days) | % | > 60 |
| 96-hour LC50 value(JIS) | mg/L | > 100 |
| Eco mark No. | | No.04110027 |

Note: The typical properties may be changed without a notice (Nov. 2011)



Handling Precautions

▼ Follow these precautions when handling petroleum products.

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|----------------------------------|--|
| Composition : | Base Oil, Additives |
| Precautionary pictograms: | Not applicable |
| Signal word: | Not applicable |
| Hazard Statement: | Not applicable |
| Precautionary Statements: | <ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• Wear protective gloves/protective clothing/eye protection/face protection.• Do not allow the eyes to become exposed to the product. Do not swallow the product.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product. |
| Prevention | |
| Response | <ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.• IF ON SKIN: Wash with plenty of soap and water. |
| Storage | <ul style="list-style-type: none">• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.• Containers that have been opened must be tightly sealed. |
| Disposal | <ul style="list-style-type: none">• Dispose of contents/container in accordance with local/regional/national/international regulations.• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage. |