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**Handling and Storage****Handling**

Treat the material with care if being melted.

**Storage**

Keep container tightly closed.

Store in areas shielded the light, and at a temperature not exceeding 25°C.

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**Exposure Controls****Protection**

Wear suitable protective clothing, gloves and eye protection.

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**Physical and Chemical Properties 1)**

Appearance White to yellowish powder.

Melting Point 45~60°C

Specific Gravity ca. 1.0 (60~100°C)

Solubility Insoluble in water. Soluble in benzene(17g/100ml gel).

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**Hazards Information 1)**

Flash Point 222°C (Cleveland open cup)

Exposion limits Lower 100g/m<sup>3</sup>(24.5°C, 72%)

**Heat of**

combustion 7355 cal/g

**Instability •**

Reactivity Gradually hydrolyzed with hygroscopic water.

Hydrolyzed and liberate fatty acid in prolonged contact with water.

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**Toxicological Information (Health Hazards Information) 1) 2) 3) 4)**

Acute toxicity LD<sub>50</sub> 25000mg/kg bw. (rat, oral)  
10985mg/kg bw. (mouse, oral)

**Carcinogenicity**

Bacterial mutagenicity test : Negative

Irritation Not observed (rabbit, eye)

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**Ecological Information 1)**

Biodegradability Good

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**Disposal Information**

Treatment, storage, transportation and disposal must be in accordance with local regulations.

Burning up the material with combustibles.

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**Transport Information**

The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling.

In transportation confirm leakless of the container, and load the materials not to upset, fall and damage.

Secure preventing the load from falling.

Treat the material sanitarily , and avoid temperature exceeding 25°C and high moisture.

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**Regulatory Information**

JAPAN Food Additive(JSFA on Food Sanitation Law)

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**Additional Information**

## Inquiry about informations

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**References**

- 1) Unpublished data(for Company use :Japanene)
- 2) WHO Food Additives Series No.5, p.505; 1974
- 3) HENIGENN TO DOKUSEI 5(6), 579~587 (1982)
- 4) Drug & Cosmetic Ind. 122(5), 35~ (1978)

While MSDS presented here is correct and reliable to the best of our knowledge and belief, because we do not control any applications and conditions of use, they are given without guarantee, and we assume no responsibility with respect thereto.

The information on products is intended for common products use, so care for extraordinary handling.

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End of MSDS

Musashino Chemical Laboratory, Ltd.