

SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name : Cetyl Lactate
 Other Name : Hexadecyl 2-Hydroxypropanoate
 Manufacturer : Musashino Chemical Laboratory, Ltd.
 Address : Tekko Bldg., 8-2, Marunouchi 1-Chome,
 Chiyoda-Ku, Tokyo 100-0005
 TEL : +81-3-6810-0242
 FAX : +81-3-6810-0148

2. Hazards identification :

Flammable Solids, Not classified
 Hazard information : None

3. Composition/Information on Ingredients

It is single substance of Cetyl Lactate

Contents : 98% up
 Chemical Name : Hexadecyl-2-Hydroxypropanoate
 Formula :
$$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{COOC}_{16}\text{H}_{33} \\ | \\ \text{OH} \end{array}$$

MITI No. : (2)-951
 CAS No. : 35274-05-6
 EINECS : 252-478-7
 TSCA : On Inventory
 Hazardous Component : None

4. First Aid Measures

SKIN CONTACT : Wash the skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

EYE CONTACT : Continue to rinse at least 15 minutes. if possible, remove contact lenses from eyes before rinsing. Get medical attention if any discomfort continues.

INHALATION : Move the exposed person to fresh air at once. Get medical attention.

INGESTION : Immediately rinse mouth and drink plenty of water. Get medical attention immediately.

5. Fire Fighting Measures

Suitable extinguishing media

: Dry chemicals, foam

Special hazards arising from the product :

: No information available.

Special fire-fighting methods

: Cut off the combustion source and use the fire extinguishing agent to extinguish. In addition, cool tanks and building by water spray for reduction of fire spread. Fire-fighting should be done from the windward side.

Protection for fire-fighters

: Fire fighters should wear appropriate breathing apparatus and protective equipment.

6. Accidental Release Measures

Personal precautions

: Wear personal protective equipment.

Environmental precautions

: It is biodegradable. And it is thought that fish toxicity is low.

Methods cleaning up

: After cooling and solidifying, recover spoilage. If it is adhered, tear it off and recover. In addition, scrape off attaching part and wipe off with solvent.

7. Handling and Storage

Handling

: Be careful about burns by the adhesion of molten state of it to skin.

Storage

: Keep container tightly closed. Keep in areas shielded the light. Store in normal temperature condition.

8. Exposure Controls/Personal Protection

Exposure limits

: No information available.

Equipment measures

: Provide local exhaust or process enclosure ventilation system. Setup safety shower, eye washer and hand washer. And display those positions clearly.

Personal protective equipment

Respiratory protection

: In case of inadequate ventilation wear respiratory protection.

Hand protection

: Wear protective gloves.

Eye protection

: If the eyes may potentially come in contact with the

product, then chemical safety goggles are necessary.

Skin and body protection : Wear appropriate protective working clothing and apron.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance	: White and soft solid.
Color	: Colorless
Odor	: Having a characteristic odor.
pH	: No data
Boiling Point	: 170°C (0.133kPa)
Melting Point	: 37~44°C
Decomposition Point	: No data
Flash Point	: 200°C (Cleveland open cup test)
Ignition Point	: No information available.
Explosion limits	: No information available.
Vapor Pressure	: No information available.
Vapor Density	: No information available.
Evaporation Rate	: No information available.
Heat of combustion	: 37,200 J/g
Specific Gravity	: 0.893~0.905 (d ₂₅ ³⁰) 0.885~0.897 (d ₂₅ ⁴⁰)
Solubility	: Not soluble in water. Soluble in alcohol and ether.

10. Stability and Reactivity

Stability	: Gradually hydrolyzed by absorbing moisture.
Possibility of hazardous reactions	: No information available.
Conditions to avoid	: Flames, strong heating and other sources of ignition, incompatible materials.
Incompatible materials	: Strong acids, Strong bases.
Hazardous decomposition Products	: Oxides of carbon

11. Toxicological Information

Symptom	: Not available.
Acute toxicity	: LD ₅₀ >20,000mg/kg (Rat, Oral)
Local effect	: No data
Sensitizing Property	: Negative (Guinea pig skin) (Human skin)

Irritation : Minimally irritating (Rabbit skin)
Nonirritating or only slightly irritating (Rabbit Eye)

12. Ecological Information

Persistence/degradability : Good.

13. Disposal Information

Waste disposal methods

: Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14. Transport information

UN Number : Not regulated

UN Proper shipping name : Not regulated

UN Classification : Not regulated

Packing Group : Not regulated

Mark/Label(s) : Not regulated

Additional 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.

15. Regulatory Information

Applicable regulations (Japan)

1. Fire Service Act.
Flammable solid
2. Pharmaceutical and Medical Device Act.
Standards of Quasi-drug Ingredients
Standards of Pharmaceutical Excipients

16. Other Information

References

- 1) The Sigma-Aldrich Library of Chemical Safety Data
Edition II ; Robert E. Lenga
- 2) "The Handbook of Prevention for Dangerous Substances Accidents and Emergencies"
KOUBEKAINAN BOUSHIKENKYUUKAI published by SEIZANDO
(Japanese)

- 3) "The Guide to Prevention of Chemical Accidents I "
Japan Chemicals Association published by MARUZEN (Japanese)
- 4) "The Handbook of Organic Solvents"
Matsuda et al. published by SANGYO TOSYO (Japanese)
- 5) Reports of Authorized Public Laboratory (Japanese)
- 6) Unpublished data (for Company use: Japanese)

Disclaimer :

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.