

Material Safety Data Sheet

LEAD FREERITE LCF - 030

Date Prepared : Dec. 18, 2012
Prepared By : S. Miyakawa

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : LCF-030

Company Name : TAMURA CORPORATION
Address : 16-2, Sayamagahara, Iruma-shi, Saitama, 358-8501, Japan
Phone Number : +81-4-2934-6131
Emergency Phone Number : +81-4-2934-6134
FAX Number : +81-4-2934-6559

2. HAZARDS IDENTIFICATION

GHS Classification : Flammable liquid - Category 2
Acute toxicity - Category 5 (oral/dermal)
Serious eye damage/eye irritation - Category 2
Toxic to reproduction - Category 2
Specific target organ toxicity (single exposure)
- Category 1, 3
Specific target organ toxicity (repeated exposure)
- Category 2
Aspiration hazard - Category 2

Labelling:

Symbol : Flame, Health hazard, Exclamation mark
Signal word : **DANGER !**
Hazard statement : Highly flammable liquid and vapour.
May be harmful if swallowed.
May be harmful in contact with skin.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to central nervous systems/kidney.
May cause respiratory irritation.
May cause damage to blood vessel/liver/spleen through
prolonged or repeated exposure.
May be harmful if swallowed and enters airways.

Precautionary statements : Keep away from heat, sparks, open flames, or hot surfaces.
 No smoking.
 Keep container tightly closed.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Avoid breathing mist/vapours/spray.
 Wash hands thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves, eye protection and face protection.

3.COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS			ACGIH Other Limits
Chemical Name or Common Names	%	CAS Number	TLV-TWA Recommended
modified resin	8.5	trade secret	N/A
isopropyl alcohol	90.7	67-63-0	200 ppm
activator (organic)	0.8	trade secret	N/A
100.0			

*OPTIONAL N/A : Not applicable

4.FIRST AID MEASURES

Ingestion : Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Skin : Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Get medical advice and attention if skin irritation or rash occurs. Remove or Take off immediately all contaminated clothing and wash before re-use.

Eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice and attention if eye irritation persists.

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell or experiencing respiratory symptoms.

5.FIRE FIGHTING MEASURES

Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Safety precaution : Ventilate the area and evacuate personnel. Wear appropriate PPE. Remove sources of ignition.

Small spillage : Absorb with sand, earth or other suitable absorbent and remove to a safe place for disposal.

Large spillage : Avoid entry into drains, ditches, streams or rivers by use of sand or earth. Transfer to salvage tank if possible, otherwise treat as small spillage. Inform local authorities if contamination enters watercourses or drains.

7. HANDLING AND STORAGE

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respiratory if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and / or high concentrations. Follow the principles of good occupational hygiene to control personal exposures.

Flammable. Keep away from oxidizers, heat and flames. May attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure controls

Exposure limits : See section 3

Consult local authorities for acceptable exposure limits.

Hygiene measures : Always wash thoroughly after handling chemicals, especially before eating, drinking and smoking.

Personal protection

Respiratory : Use in a well ventilated area with local exhaust ventilation if necessary to control exposure. Avoid use in confined spaces. Use appropriate respiratory protective equipment if the above limits may be exceeded.

Hand : Solvent resistant gloves

Eye : Safety goggles

Skin : Overalls and boots

Hygiene measures : Always wash thoroughly after handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear, light yellow liquid
 Odor : Alcoholic odor
 Boiling point : > 82
 Melting point : < -80
 Flash point : > 11.7 (by Tag closed cup)
 Vapor pressure : Approx. 4.3 kPa (at 20)
 Vapor density : N/I
 Solubility in water : Insoluble
 Density : Approx. 0.808 g/cm³ (at 20)
 pH : N/I

*OPTIONAL N/I : No information

10. STABILITY AND REACTIVITY

Stability : Stable
 Conditions to avoid : Sources of ignition, flames, sparks and heat.
 Materials to avoid : Oxidizing agents, nitric acid.
 Hazardous decomposition products : Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingredient name	CAS number	Test	Species	Dose
Isopropyl alcohol	67-63-0	LD ₅₀ Oral	Rat	1870-5500 mg/kg
		LD ₅₀ Dermal	Rabbit	4059-12870 mg/kg

Carcinogenicity

Classification

Ingredient name	CAS number	ACGIH	IARC
Isopropyl alcohol	67-63-0	A4	3

12. ECOLOGICAL INFORMATION

Aquatic ecotoxicity

Ingredient name	CAS number	Test	Result	Species	Exposure
Isopropyl alcohol	67-63-0	Mortality	Acute LC ₅₀ >100 mg/L	Oryzias latipes	96 hours

13.DISPOSAL CONSIDERATIONS

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations. Container as substance, not to be cut up or punctured until completely purged of product residues. Consult an environmental engineer.

14.TRANSPORT INFORMATION

Information approved for the carriage of dangerous goods.

UN Number : 1993
Proper shipping name : Flammable liquid , n.o.s. (Isopropyl alcohol)
Class : 3
Packing Group : II
Additional information: ERG# 128

15.REGULATORY INFORMATION

HS Code : 3810.90

16.OTHER INFORMATION

Legal disclaimer : The information contained in this data sheet does not constitute an assessment of workplace risks. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with the respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.