

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product code : FRZME
Company : Chanjao Longevity Co., Ltd.
50 Ramindra 14, Bangkok 10230
THAILAND
For information call : 02-002-7-002

2. HAZARDS IDENTIFICATION

The following evaluation is in compliance with 29 CFR 1910.1200.

Emergency Overview

This product is : clear, viscous liquid - colorless to pale yellow
Water solubility : 1.2 g/l
immiscible
Odour : characteristic
Flash point : 289 °F / 143 °C
Flammability (DOT173) : none
Flammability (OSHA) : None.
OSHA PHYSICAL HAZARD (OTHER): : None.

Acute Health Hazard

Eyes : Severe eye irritant
Skin : Moderate skin irritant
Inhalation : Mild Inhalation Irritant
LD50 Oral : Not Toxic
LD50 Dermal : Not Toxic
LC50 Inhalation : Not Toxic

Chronic Health Hazard:

This material has not been found to be carcinogenic per NTP.

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

This material has not been found to be carcinogenic per IARC.

This material has not been found to be carcinogenic per OSHA.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : 1,4-Dioxaspiro[4.5]decane-2-methanol, 9-methyl-6-(1-methylethyl)-
Chemical Family : Acetals (non cyclic)
CAS-No. : 63187-91-7
FEMA Number : 3807
Product Type : Raw material

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eye contact : Irrigate thoroughly with plenty of water until discomfort is relieved. Consult a physician for proper medical care.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Inhalation : If signs of dizziness and/or nausea occur, then remove the person immediately to fresh outside air.

Ingestion : If accidentally swallowed obtain immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : 289 °F / 143 °C

HMIS Rating : Health: 2
Reactivity: 0
Flammability: 1

NFPA Classification : Class IIIB

Flammability (OSHA) : None.

Autoignition temperature : 644 °F / 340 °C
Method: DIN 51794

Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)

Unsuitable media : Water may be ineffective.

0 = Insignificant
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

Special protective equipment and precautions for fire-fighters : Follow NFPA Chapter 30 Fire Prevention Methods.

Specific hazards arising from the chemical : None.

6. ACCIDENTAL RELEASE MEASURES

This product is : clear, viscous liquid - colorless to pale yellow

Water solubility : 1.2 g/l
immiscible

Odour : characteristic

Methods for cleaning up : Cover with an inert absorbent material and remove to a disposal container. Mop up and then wash with soapy water.

Disposal Considerations : Dispose of in accordance with local regulations. Observe local, state and federal regulations. Incineration is the most recommended disposal method.

7. HANDLING AND STORAGE

Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice. For industrial use only. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and flame.

Flammability (OSHA) : None.

OSHA PHYSICAL HAZARD (OTHER): : None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Although no TLV/TWA is established for this product by Federal standards, we recommend a lowest achievable TLV by means of sufficient ventilation.

Respiratory protection : Respirator with filter for organic vapour

Ventilation protection : Ensure adequate ventilation.

Eye protection : Chemical resistant goggles must be worn.

Hand protection : Wear suitable gloves.

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: clear, viscous liquid
Color	: colorless to pale yellow
Odour	: characteristic
Boiling point/boiling range	: > 250.0 °C / > 250.0 °C at 759.812 mmHg
Flash point	: 289 °F / 143 °C
Water solubility	: 1.2 g/l immiscible
Specific Gravity (range)	: ca.1.0300 at 68 °F / 20 °C Method: OECD 109 Note: relation to density of water at 4°C
Vapour pressure	: 0.100 mmHg @ 20 °C
Autoignition temperature	: 644 °F / 340 °C Method: DIN 51794

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable
Possibility of Hazardous reactions	: Will Not Occur
Conditions to avoid	: None.
Materials to avoid	: None.
Hazardous decomposition products	: None.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: 5,716 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	: LD50 rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402
Acute inhalation toxicity	: Please refer to section 2 for toxicological information.

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Modified Sturm Test
Result: Not readily biodegradable.
3 %
Method: OECD 301B

Ecotoxicity effects

Toxicity to fish : semi-static test LC50
Species: Carp (Cyprinus carpio)
Dose: 24 mg/l
Exposure time: 96 h
Method: OECD 203 / ISO 7346

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. Observe, local, state and federal regulations. Incineration is the most recommended disposal method.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) Inventory Status

This product is listed on the TSCA inventory

SARA Title III Section 313

This product contains no chemicals subject to the reporting requirements of section 313 of SARA.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

In accordance with SARA CERCLA 302.4 Regulations, if a release occurs in a quantity equal to or exceeding the reportable quantity, notification must be immediately made to the National Response Center at 800-424-8802.

A release is considered any spilling, leaking, pumping, pouring, emitting, emptying, discharging, escaping, dumping or disposing into the environment.

Contains no CERCLA reportable ingredients.

California Prop. 65

Material Safety Data Sheet

Freeze Me™

Version 5

Revision Date 12/08/2010

Print Date 06/16/2011

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

These safety guidelines are based on information obtained from reliable sources. Prudent use and handling as part of good manufacturing practices is advised. Employees must be trained to handle material safely and wear recommended P.P.E.

This new MSDS was created to conform with OSHA hazard communication standard 29CFR 1910.1200. Please discard previous form.

This MSDS was prepared by the Regulatory Affairs Department.