

MATERIAL SAFETY DATA SHEET

C.I.KASEI CO.,LTD.

Prepared date: July 01, 1995

Revised date: August 30, 2002

1. Identification of the Preparation and Company

Product number: LEAKMASTER LV-1
 Preparation Name: LEAKMASTER
 Company Identification: C.I.KASEI CO., LTD.
 18-1, 1-Chome Kyobashi Chuo-ku,
 Tokyo 104-8321 Japan
 Telephone number: 81-3-3535-4547
 Emergency telephone: 81-3-3535-4565
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2. Composition / Information on Ingredients

Substance/Mixture: Mixture
 Chemical name: Polyurethane water sealing caulking compound
 Main component: Polyurethane, Calcium carbonate, Xylene, Petroleum solvent, Titanium oxide
 Dangerous components:

Component chemical name	Contents (%)	CAS. No.
Titanium oxide	2-4	13463-67-7
Petroleum solvent	3-6	64742-94-5
Xylene	0.7-1.5	108-38-3

3. Hazard Identification

Class name of hazardous chemical for MSDS in Japan: Unidentified
 Physical and chemical hazards: No information
 Adverse human health effect: Thermal decomposition may produce HCl, CO, etc.
 Environmental effects: No information

4. Emergency and First-aid procedures

If in eye: Don't rub your eyes. Flush immediately eyes with large amount of clean water until irritation subside.
 See a doctor if irritation persists.
 If on skin: Flush with large amount of water. Use a soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse.
 Inhalation: Remove the affected person to fresh air. If there is difficulty with breathing give oxygen and obtain medical attention.
 Ingestion: If conscious, give water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire-fighting measures

Fire-fighting instruction: Either allow fire to burn out under controlled condition or extinguish with form or dry chemical.
 Fire-fighting equipment: Respiratory and eye protection required to fighting personnel. Full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguish with a portable fire extinguisher, using
 Hazardous combustion products: Carbon dioxide, carbon monoxide, amine and ammonia.

6. Accidental release measure

Sweep up and discard.

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7. Handling and storage

Handling:	Avoid inhaling vapor, avoid contact with skin and eyes. Handle in well ventilated area.
Storage:	Store in a cool, dry, well-ventilated location. Keep away from water. Keep away from heat, flame and sunlight. Temperature should be controlled from 5 to 35 centigrade.

8. Exposure control/ personal protection

Skin protection:	For brief contact, no precautions other than clean body-covering would be needed. When prolonged or frequently repeated contact could occur, use protective clothing such as butyl rubber, impervious to this material. Selection of specific items such as gloves, boots, apron or full body suit depend on the operation.
Eye protection:	Use safety glasses. Where contact with this material is likely, chemical goggles are recommended because eye contact may cause discomfort even though it is unlikely to cause injury.

9. Physical and chemical properties

State:	Paste
Appearance:	Gray
Smell:	Like petroleum
Viscosity:	100,000-250,000 cps (23°C)
Solubility:	Water insoluble. Petroleum solvent - soluble.
Density:	1.20-1.30 g/cm ³ (23°C)

10. Stability and Reactivity

Stability:	Viscosity increases when the temperature is more than 25°C
Unpleasant condition:	No information
Unpleasant material:	Strong oxidizing agents
Hazardous reaction:	Exothermic reaction with amine and alcohol. Evolving CO ₂ react with water.
Hazardous decomposition	carbon dioxide, carbon monoxide, nitric oxide, ammonia

11. Toxicity information

Acute toxicity	No information
Subacute toxicity:	No information
Chronic toxicity:	No information

12. Ecological information

Biodegradability:	No information
Bioaccumulation:	No information

13. Disposal consideration

Disposal should be in compliance with local, state or national legislation.
Can be burnt if there are proper equipment to burn.

14. Transport information

Not a hazardous material for DOT shipping.

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15. Toxicological Information of Component Solvents

PETROLEUM SOLVENT		m-XYLENE	
LD ₅₀ Oral (Rats)	200-2,000 mg/kg	LD ₅₀ Oral (Rats)	5,000 mg/kg
LD ₆₀ Dermal (Rabbits)	2,000 mg/kg	LD ₆₀ Dermal (Rabbits)	5,000 mg/kg
LD ₅₀ Inhalation (Rats)	2-5 mg/l	LD ₅₀ Inhalation (Rats)	8,000 ppm/4hr

16. Physical and Chemical Properties of Component Solvents

	PETROLEUM SOLVENT	m-XYLENE
Boiling Point	254-371°C	136-144°C
Density	1.0 (15°C / 4°C)	0.8642 (20°C)
Initial boiling point	230-250°C	—
vapor pressure	1.0 KPa (37.8°C)	0.64-0.90KPa (20°C)
Flammability	Flammable Liquid	Flammable Liquid
Flash point	100-140°C	21-32°C
Auto ignition temperature	No data	432-564°C
Explosion limits in air	LEL 1% (V/V) UEL 7% (V/V)	LEL 1% (V/V) UEL 7.8% (V/V)
Oxidizing properties	N / A	—
Permissible concentration	TWA 100 ppm (525 mg/m ³)	TWA 100 ppm (435 mg/m ³)

17. Other information

a) To the best of our knowledge, the information contained herein is accurate in order to have the user handle the product safer.

However, C.I.KASEI CO.,LTD. do not assume any liability for the accuracy or completeness of the information contained herein.

b) Final determination and utilization of the product is the sole responsibility of the user. C.I.KASEI CO.,LTD ask the user to handle the product carefully and safely referring to the information contained herein.

c) The information described herein can be revised, when any new information data is obtained.