SAFETY DATA SHEET

According to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier : **LEAKMASTER LV-Z**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant uses : Water stop for construction use

1.3. Details of the supplier of the safety data sheet

Manufacturer:

C.I. KASEI CO., LTD.

NO.18-1, 1-CHOME, KYOBASHI, CHUO-KU, TOKYO, 104-8321, JAPAN

PHONE: 81-3-3535-4568, FAX: 81-3-3535-4542

Distributor & Emergency telephone:

PHONE: , FAX: , E-mail:

1.4. Emergency telephone number PHONE 81-3-3535-4568

(Working time: From 9am to 5pm Japanese time)

SECTION 2: Hazards identification

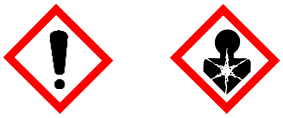
2.1. Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200-2012) [GHS]:

Classification
Acute tox. Inhal : 4 . Resp Sens : 1 Carc. : 2 STOT. RE : 2

2.2. Label elements

Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200) [GHS] :

Symbols	
Signal word	Danger
Hazard Statements	Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if Inhaled Suspected of causing cancer May cause damage to organs (inhalation organs, lung) through prolonged or repeated exposure

Precautionary Statements	Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray If exposed or concerned : Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3. Unclassified hazards: None

2.4. Percentage of ingredients with unknown toxicity:

45-55 percent of the mixture consists of ingredient of unknown acute toxicity.

45-55 percent of the mixture consists of ingredient of unknown hazard to the aquatic environment.

SECTION 3: Composition/information on ingredients

Product-type: mixture

Name	%	CAS No.	Classification according to OSHA HCS (29 CFR 1910.1200)
Urethane pre-polymer	45~55	Trade secret	-
Inorganic filler	25~35	Trade secret	-
Aliphatic hydrocarbon	10~20	Trade secret	-
Silica (amorphous)	5~10	Trade secret	-
Titanium dioxide	1~5	13463-67-7	-
Benzene, 1,1'-methylenebis [4-isocyanato-	<0.5	101-68-8	Acute tox. Inhal : 4, Skin Irrit : 2 Resp Sens : 1, Eye Irrit : 2 Skin Sens : 1, Carc. : 2 STOT. RE : 2, STOT. RE : 3

Specific chemicals identities and /or exact percentage of composition have been withheld as a trade secret.

VOC content is approx. wt.15%.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact

Wash off immediately with plenty of soap and water. Take all contaminated clothing off immediately. Seek medical advice if irritation develops.

Eye contact

Immediately flush with large quantities of clean water for at least 15 minutes and call a physician.

Inhalation

Move affected person to fresh air. In case of exposure to respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

Ingestion

Do not induce vomiting. See a physician immediately.

Note to physician

None

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Dry sand, foam, carbon dioxide or dry chemical agents.

5.2. Specific hazards arising from the mixture

Smoke, fumes, oxides of carbon and NOx.

5.3. Special protective equipment and precautions for firefighters

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Clean-up personnel should wear protective clothing and equipment to prevent inhalation of dusts and skin and eye contact.

6.2. Environmental precautions

Do not flush into the sewer.

6.3. Methods and material for containment and cleaning up

Carefully collect the spilled material and place in a bucket. The area should be thoroughly cleaned.

6.4. Reference to other sections

See Section 8+13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapour. Avoid prolonged or repeated contact with skin. Do not allow it to reach to the waterways.
Avoid vapor formation and ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store away from heat / moisture / strong oxidizing agents.

7.3. Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Name	OSHA PEL [2)]		ACGIH TLV [3)]			
	TWA		STEL		TWA	
	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm
Titanium dioxide	15				10	
Benzene, 1,1'-methylenebis [4-isocyanato-		0.005				0.005

8.2. Exposure controls

Appropriate engineering controls

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses or splash goggles. Contact lenses should not be worn.

Skin protection

Hand protection: Chemical resistant gloves. Wear overall and closed footwear.

Other: No information available

Respiratory protection: If vapors, mists or aerosols are generated, wear an approved respirator.

Thermal hazards: No information available

Environmental exposure controls

Treat this product in accordance with the directives and regulations in the United States.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Gray putty
Odor:	Slight odor
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point °F (°C):	No data available
Initial boiling point and boiling range °F (°C):	No data available
Flash point °F (°C):	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure (kPa):	No data available
Vapor density:	No data available
Relative density:	1.25 at 77°F (25°C) [1)]
Solubility water solubility:	No data available
fat solubility:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (mPa•s):	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under normal ambient conditions (ambient temperature)

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Keep away from heat, moisture and static discharges.

Cold condition (below 5°C)

10.5. Incompatible materials

Keep away from oxidizing agents, peroxides and strong acid.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may produce oxides of carbon and oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: No data available, but may be harmful if swallowed.

Skin corrosion/irritation: No data available, but may cause skin irritation

Serious eye damage/irritation: No data available, but may cause eye irritation

Respiratory or skin sensitization: No data available, but may be harmful if inhaled.

Germ cell mutagenicity: No data available.

Carcinogenicity: Not listed as a carcinogen by ACGIH, NTP, IARC, OSHA or NIOSH.

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available but may cause damage to organs through prolonged or repeated exposure

Aspiration hazard: No data available

SECTION 12: Ecological information

12.1. Toxicity No data available, but may be harmful to aquatic life

12.2. Persistence and degradability No data available

12.3. Bioaccumulative potential No data available

12.4. Mobility in soil No data available

12.5. Results of PBT and vPvB assessment No data available

12.6. Other adverse effects No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Incineration: Should be in accordance with local regulations.

Recycling: Should be in accordance with local regulations.

Land filling: Should be in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number See the below table

14.2. UN proper shipping name See the below table

14.3. Transport hazard class(es) See the below table

14.4. Packing group See the below table

14.5. Environmental hazards See section 14.2 in accordance with UN shipping name

14.6. Special precautions for user Relevant information under SECTION 6 to 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

	UN No.	Class	Proper shipping name	Packing group	Marine pollutant
IMDG	None				None
ADR/RID	None				
ICAO/IATA	None				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

US FEDERAL REGULATION:

TSCA: **TSCA INVENTORY** ☒ registered ☐ not registered

SARA TITLE III

SECTION 313 TOXIC CHEMICALS:	**COMPONENT**	**CAS RN**	**Wt%**
	Benzene, 1,1'-methylenebis [4-isocyanato-	101-68-8	<0.5

California Prop. 65:	**COMPONENT**	**CAS RN**	**Wt%**
	Benzene, 1,1'-methylenebis [4-isocyanato-	101-68-8	<0.5

INTERNATIONAL INFORMATION:

CEPA	**: DSL**	☒ registered	☐ not registered
REACH (EU):		☒ If you require information, please contact us.	☐ not registered

SECTION 16: Other information

Reference: 1) Our testing data
2) OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA, 2015)
3) Threshold limit values of chemical substances and physical agents and biological exposure indices ACGIH(2015)

Technical contact point

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