

SAFETY DATA SHEET

OUR REF No. III-20

1. IDENTIFICATION OF THE PRODUCT AND OF THE SUPPLIER

【PRODUCT NAME】 HANARL KS-39M
【USE OF THE CHEMICAL】 Lubricant
【MANUFACTURER NAME】 Kanto Kasei Ltd.
【MANUFACTURER ADDRESS】 1-8-1, Marunouchi, Chiyoda-ku, Tokyo JAPAN, 100-0005
【DIVISION】 Chemical Safety Division
【PHONE NUMBER】 TEL: 03(3218)7111 FAX: 03(3218)7100
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2. HAZARDS IDENTIFICATION

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: Not applicable

LABEL ELEMENTS

Hazard pictograms: Not applicable

Signal words: Not applicable

Hazard statements: Not applicable

Precautionary statements: Not applicable

This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

3. COMPOSITION/INFORMATION ON INGREDIENTS

DISTINCTION

(SINGLE PRODUCT/MIXTURE) : Mixture

CHEMICAL NAME : Dry film lubricant

COMPOSITION : Fluorinated solvent 85~95wt%
 : Fluoric oil, solid lubricants and others 5~15wt%

CHEMICAL FORMULAE : Not disclose, because of trade secrets

CAS NO : Not disclose, because of trade secrets

UN CLASS/UN NUMBER : Not applicable

4. FIRST-AID MEASURES

IF INHALED : Remove person to fresh air.

If you feel unwell, get medical attention.

IF ON SKIN : Wash with soap and water.

IF IN EYES : Flush with large amounts of water.

Remove contact lenses if easy to do. Continue rinsing.

IF SWALLOWED : Rinse mouth.

MOST IMPORTANT SYMPTOM

PROTECTION OF PERSON : No data available

GIVE FIRST-AID : No data available

SPECIAL NOTE TO DOCTOR : No data available

5. FIRE-FIGHTING MEASURES

- EXTINGUISHING MEDIA** : Material will not burn. Use a fire fighting agent suitable for the surrounding fire.
- PECULIAR HAZARD STATEMENT** : Exposure to extreme heat can give rise to thermal decomposition.
- HAZARDOUS DECOMPOSITION** : Carbon monoxide, Carbon dioxide, Hydrogen Fluoride, Toxic vapour, gas, particulate.
- PROTECTION OF THE PERSON**
- EXTINGUISHES FIRE** : When firefighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.
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6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS** : Evacuate area. Ventilate the area with fresh air.
: For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.
: Observe precautions from other sections.
- ENVIRONMENTAL PRECAUTIONS** : Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.
- METHODS FOR CONTAINMENT AND CLEANING UP** : Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material.
: Mix in sufficient absorbent until it appears dry.
: Collect as much of the spilled material as possible.
: Place in a closed container approved for transportation by appropriate authorities.
: Clean up residue with an appropriate solvent selected by a qualified and authorized person.
: Ventilate the area with fresh air.
: Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.
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7. HANDLING AND STORAGE

- HANDLING** : Do not breathe thermal decomposition products.
: Avoid skin contact with hot material.
: For industrial or professional use only.
: Do not eat, drink or smoke when using this product.
: Wash thoroughly after handling.
: Avoid release to the environment.
: Avoid contact with oxidizing agents (ex. chlorine, chromic acid etc.)
- STORAGE** : Store in a well-ventilated place.
: Keep container tightly closed.
: Store away from heat, acids, strong bases, oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EQUIPMENT MEASURES	: Provide appropriate local exhaust when product is heated.
MANAGEMENT CONCENTRATION	: Not established
ALLOWABLE CONCENTRATION	: Not established
	: ACGIH Not established
PROTECTION	
RESPIRATORY PROTECTION	: If necessary, wear hazard mask.
HAND PROTECTION	: Select and use gloves and/or protective clothing
	: Gloves made from the following material(s) are recommended: Nitrile Rubber
EYE PROTECTION	: None required.
SKIN PROTECTION	: Protective clothing
APPROPRIATE SANITARY REQUIREMENT	: Remove dirty clothes, wash completely and reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Liquid
COLOR	: Red purple (red~wine red)
ODOR	: Odorless
p H	: No data
MELTING POINT/FREEZING POINT	: No data
INITIAL BOILING POINT AND BOILING	: 95°C
FLASH POINT	: Not applicable Does not flash
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	: Not applicable
VAPOR PRESSURE	: 6,746.1 Pa (20°C)
VAPOR DENSITY	: 14
RELATIVE DENSITY (WATER=1)	: Approx. 1.8
SOLUBILITY	: Water : Insoluble Other solvent : Insoluble
AUTO-IGNITION TEMPERATURE	: No data
DECOMPOSITION TEMPERATURE	: Not applicable
VISCOSITY	: No data

* These data except for appearance are about solvent.

10. STABILITY AND REACTIVITY

STABILITY	: Stability at room temperature
POSSIBILITY OF HAZARDOUS REACTIONS	: Hazardous polymerisation will not occur.
CONDITIONS TO AVOID	: None known.
INCOMPATIBLE MATERIALS	: None known.
HAZARDOUS DECOMPOSITION PRODUCTS	: None known.
OTHER	: If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : Oral : rat : LD50 > 2,000 mg/kg
 Dermal : LD50 estimated to be > 5,000 mg/kg
 Inhalation(vapor) : rat : LC50 > 20.6 mg/l
 Inhalation(mist) : No data

SKIN CORROSION/IRRITATION : Rabbit: No significant irritation

SERIOUS EYE DAMAGE/
 IRRITATION : Rabbit: No significant irritation

RESPIRATORY OR SKIN
 SENSITIZATION : No data

GERM CELL MUTAGENICITY : Not mutagenic

CARCINOGENICITY : No data available

REPRODUCTIVE TOXICITY : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

ASPIRATION HAZARD : No data available

12. ECOLOGICAL INFORMATION

ACUATIC TOXICITY ACUTE : No toxicity
 CHRONIC : No toxicity

PERSISTENCE/DEGRADABILITY : No data available

BIOACCUMULATIVE POTENTIAL : No data available

MOBILITY IN SOIL : No data available

OTHER ADVERSE EFFECTS : No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/
 international regulations.

- : Dispose of waste product in a permitted industrial waste facility. Combustion products will include HF. Facility must be capable of handling halogenated materials.
- : Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations.
- : Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

14. TRANSPORT INFORMATION

Not classified as dangerous in all means of transport regulations, including air,
 sea and land.

INTERNATIONAL REGULATIONS

FOR TRANSPORT : Not regulated (Not dangerous)

UN CLASS : Not applicable

UN NUMBER : Not applicable

PRODUCT NAME : Not applicable

CONTAINER GRADE : Not applicable

SEAWATER POLLUTION MATERIAL : None

SPECIFIC SECURITY PRECAUTION

AND CONDITION OF TRANSPORTATION : The container is avoided direct sunlight, and it
 loads so as not to be damaged, corroded and leak.
 The collapse of cargo piles is prevented surely.
 : Don' t pile the heavy load.

15. REGULATORY INFORMATION

EPCRA 311/312 Hazard Classifications : Physical Hazards : Not applicable
Health Hazards : Not applicable

16. OTHER INFORMATION

Please read the SDS well before use.

SAFETY DATA SHEETS ARE ISSUED BASED ON THE LATEST INFORMATION WE HAVE KNOWN.
HOWEVER, THESE ARE NOT THE ONE TO INSURE SAFETY.
THESE ARE PROVIDED TO COMPANIES HANDLING THE MATERIALS AS REFERENCE INFORMATION
REGARDING HAZARDOUS AND HARMFUL CHEMICALS TO ENSURE SAFE HANDLING.
WE ASK THAT THESE SHEETS BE USED BY COMPANIES AS REFERENCE AND WITH THE
UNDERSTANDING THAT IT IS NECESSARY FOR MESURES APPROPRIATE TO THE SPECIFIC
CIRCUMSTANCES RELATED TO HANDLING THE MATERIALS TO BE TAKEN UNDER THEIR OWN
RESPONSIBILITY. ACCORDINGLY, THIS DATA SHEET IN NO WAY CONSTITUTES A GUARANTEE
OF SAFETY.