

**SAFETY DATA SHEET**

OUR REF No. III-149

**1. IDENTIFICATION OF THE PRODUCT AND OF THE MANUFACTURER**

**【PRODUCT NAME】** HANARL UD-4420  
**【USE OF THE CHEMICAL】** Lubricant  
**【MANUFACTURER NAME】** Kanto Kasei Ltd.  
**【MANUFACTURER ADDRESS】** 1-8-1, Marunouchi, Chiyoda-ku, Tokyo JAPAN, 100-0005  
**【DIVISION】** Environmental quality assurance  
**【PHONE NUMBER】** TEL: 03(3218)7111 FAX: 03(3218)7100  
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**2. HAZARDS IDENTIFICATION**

GHS CLASSIFICATION (JIS Z7253:2012)

**ENVIRONMENTAL HAZARDS** : Hazardous to the acute  
aquatic environment Category 3

Hazard identification that there is no description in the above-mentioned is  
Not applicable or Not possible to classify.

**LABEL ELEMENTS**

**SYMBOLS** : No pictogram  
**SIGNAL WORD** : None  
**HAZARD STATEMENT** : H402 : Harmful to aquatic life  
**PRECAUTIONARY STATEMENTS** **【Prevention】**  
: P273 : Avoid release to the environment.  
**【Response】**  
: Not applicable  
**【Storage】**  
: Not applicable  
**【Disposal】**  
: P501 : Dispose of contents/container in accordance with  
local/regional/national/international regulation.

Even if there is not a mention of the notice by the GHS classification, the information in later,  
making a sufficient consideration relates to prevention/response/storage/disposal.

**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

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#### 4. FIRST-AID MEASURES

IF INHALED	: Remove victim to fresh air. Get medical advice/attention.
IF ON SKIN	: Wash the affected area with soap and water.
IF IN EYES	: Flush eyes with plenty of water, and get medical advice /attention.
IF SWALLOWED	: Do not induce vomiting. Get medical advice/attention. If a mouth is polluted, wash it with plenty of water.
MOST IMPORTANT SYMPTOM	: No data available
PROTECTION OF PERSON	
GIVE FIRST-AID	: No data available
SPECIAL NOTE TO DOCTOR	: No data available

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#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	: Use spray foam, foam, powder or CO <sub>2</sub> gas extinguishing media.
FIRST FIRE	: Use powder or CO <sub>2</sub> gas extinguishing media.
LARGE-SCALE FIRE	: Use foam extinguishing media.
UNSUITABLE EXTINGUISHING MEDIA	: Prohibit rod-shaped water injection.
PECULIAR HAZARD STATEMENT	: May be harmful if inhaled vapor/mist produced at 260°C or more.
PECULIAR EXTINCTION METHOD	: Cut off combustion source of fire. : Sprinkle water to equipment to cool. : Prohibit to enter to the scene of a fire except staff.
PROTECTION OF THE PERSON	
EXTINGUISHES FIRE	: Extinguish fire on the windward side of the fire and not fail to wear protector.

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#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	: Always wear protective equipment when working.
ENVIRONMENTAL PRECAUTIONS	: Take care not to be drained into river and drain. : If the medicine is used for the sea, it should be what suits the standard in the technology that provides by the transportation ministerial ordinance.
METHODS FOR CONTAINMENT AND CLEANING UP	: Remove source of a fire.
SMALL QUANTITY	: Remove with a spatula or shovel, or absorb with soil, sand or a cloth. Wipe off remainder with a cloth.
LARGE QUANTITY	: Prevent access by roping off the perimeter around the leak.
AT SEA	: Prevent dispersion by creating an oil fence. Scoop up or use adsorption mats to soak up. When chemicals are used, these must comply with technological standards as set down in ministry of transport ordinances.
PREVENTION MEASURE OF SECOND DISASTER	: Inform promptly a related organization to attempt prevention and the expansion prevention of the accident when leaking. : Remove source of a fire and prepare extinguishing media.

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## 7. HANDLING AND STORAGE

### HANDLING

TECHNICAL MESURES	: Avoid contact with flame, sparks and heated objects. Do not allow unnecessary dispersion of vapor. : Take steps to prevent static electricity, and use conductive work clothes and shoes. : Remove completely it in the safety area, if the mechanical equipment are repaired and are processed. : Wear protector, if there is possibility of skin contact or eye contact. : Avoid inhalation of vapor or mist. : Containers must be sealed.
NOTES	: The vapor from petroleum products builds up easily as it is heavier than air. It is therefore necessary to ensure adequate ventilation and take care with fire.
NOTES OF SAFE HANDLING	: Handling should be done at room temperature. Prevent contamination of water and impurities. : Avoid contact with halogens, strong acids, alkaline substances and oxidants.
STORAGE	: Protect from sunlight. Store in a well-ventilated place. : Avoid heat, sparks, flames and any build-up of static electricity. : Avoid contact and storing with halogens, strong acids, alkaline substances and oxidants. : Do not apply pressure to empty containers. : Don't cut, weld, heat, or make the hole the container.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EQUIPMENT MESURES	: If the vapor arises, ventilation equipment or closing of vapor source is needed. : The equipment for washing and the body washing of eyes is set up near the handling area.
MANAGEMENT CONCENTRAITON	: Not established
ALLOWABLE CONCENTRATION	: Not established : ACGIH Not established
PROTECTION	
RESPIRATORY PROTECTION	: If necessary, wear hazard mask.
HAND PROTECTION	: Wear the resistance to oil if coming in contact repeating for a long term.
EYE PROTECTION	: Wear safety glasses with side shields.
SKIN PROTECTION	: When contacting for a long time or repeatedly, wear oil resistant ones.
APPROPRIATE SANITARY REQUIREMENT	: Remove dirty clothes, wash completely and reuse.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Liquid
COLOR	: Milky white
ODOR	: Slightly ether odor
p H	: No data
MELTING POINT/FREEZING POINT	: Approx. -135°C
INITIAL BOILING POINT AND BOILING	: 60~65°C

FLASH POINT	: Not applicable Does not flash
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	: Not applicable
VAPOR PRESSURE	: Approx. 26,931 Pa (25°C)
VAPOR DENSITY	: Approx. 8.6
RELATIVE DENSITY (WATER=1)	: Approx. 1.5
SOLUBILITY	: Water : < 12 ppm Other solvent : Insoluble
AUTO-IGNITION TEMPERATURE	: Approx. 405 °C
DECOMPOSITION TEMPERATURE	: No data
VISCOSITY	: Approx. 0.001 Pa-s(23°C) * These data except for appearance are about a solvent.

## 10. STABILITY AND REACTIVITY

STABILITY	: Stability at room temperature
POSSIBILITY OF HAZARDOUS REACTIONS	: No reaction with water
CONDITIONS TO AVOID	: Heating, high temperature, and contact hazardous material
INCOMPATIBLE MATERIALS	: Avoid contact with halogens, strong acids, alkaline substances and oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	: Harmful thermal decomposition products may be produced such as gaseous hydrogen fluoride when heated at extremely high temperature.
OTHER	: No data available

## 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	: Oral : No data Dermal : No data Inhalation(vapor) : No data Inhalation(mist) : No data
SKIN CORROSION/IRRITATION	: No data available
SERIOUS EYE DAMAGE/ IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data
GERM CELL MUTAGENICITY	: No data available
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 : Category 3 : Harmful to aquatic life
	CHARONIC : No toxicity
PERSISTENCE/DEGRADABILITY	: No data available
BIOACCUMULATIVE POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: No data available

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**13. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD : Consider disposal via licensed waste disposal company. Scrap may be incinerated under properly controlled condition. Follow all regulations in your country.

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**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.

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**15. REGULATORY INFORMATION**

Ensure this material in compliance with nation's requirements, and ensure conformity to local regulation.

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**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 MEASURES 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.