

SAFTY DATA SHEET

Last Revision July 3, 2023

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : HERME OIL SEAL No.2L
 Company name : NIHON HERMETICS CO.,LTD.
 Address : 1-29-2 Nishi-gotanda, Shinagawa-ku, Tokyo, 141-0031, Japan
 Phone number : 03-3492-3677
 Fax number : 03-3492-3660
 Intended use : Liquid gasket
 Restrictions on use : For business use
 Reference number : NS-013

2.HAZARDS IDENTIFICATION

GHS Classification

: Skin sensitization Category 1
 Specific target organ toxicity, Category 2(Systematic toxicity, Kidney,
 -repeated exposure Urinary bladder)
 * Hazards not stated here are "Not classified" or "Classification not possible".

GHS label elements

Pictogram or Symbol :



Signal word : Danger

Hazard statement

: May cause an allergic skin reaction
 May cause damage to organs (Systematic toxicity, Kidney, Urinary bladder) through prolonged or exposure

Precautionary statement

Prevention

Do not handle until safety precautions have been read and understood.
 Obtain special instructions before use.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not breathe dust/mist/vapours.
 Contaminated work clothing should not be allowed out of the workplace.
 Wash hand thoroughly after handling.

Response

If on skin: Wash with plenty of water.
 If skin irritation or rash occurs: Get medical advice/attention.
 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Take off contaminated clothing and wash before reuse.
 If exposed or concerned: Get medical advice/attention.
 Call a doctor if you feel unwell.

Storage

Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local regulation.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixture

Ingredients and contents :

Component name	CAS Number	Content (Wt %)
Phenol resin & others	—	45—55
Polymerized Caster Oil	—	45—55
Hexamethylenetetramine	100-97-0	<5
Phenol	108-95-2	<1

4.FIRST-AID MEASURES**IF INHALED**

: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call doctor if you feel unwell.

IF ON SKIN

: Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYE

: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

: Rinse mouth. Do not induce vomiting.

Immediately call doctor.

5.FIRE-FIGHTING MEASURES

Suitable extinguishing media

: Dry chemical powder, carbon dioxide, foam and dry sand

Unsuitable extinguishing media

: Water jet

Specific hazards during fire

: Inflammable at high temperatures.

Heating may induce explosion of containers.

The gas of stimulation, toxicity or the causticity might be generated by a fire.

Specific fire-fighting

: Move removable containers to a safe place if safe to do so.

Cool unremovable containers and surrounding areas by sprinkling water.

Fully cool containers with plenty of water even after extinction.

Special protective equipment and precautions for fire-fighter

: Wear chemical protective clothing (heat-resistant) and the proper air respirator when engaged fire-fighting.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict the area around the leakage to authorized personnel.

Stay on the windward side.

Get away from low place.

Ventilate before entering tightly closed places.

Do not touch or walk over the leaked substance.

Operators wear suitable protective equipment, avoid skin contact and inhalation of gas.

Environment precautions

: Avoid release to the environment.

Avoid release to gutters, sewage ditches, or rivers.

Methods and materials for containment and cleaning up

: Promptly remove all ignition sources (no smoking, sparks or fires in the vicinity).

Stop leak if safe to do so.
 Use dry sand, soil, or waste cloths to absorb the leaked substance, and collect them in a hermetic container.
 Prevent entry into waterways, sewers, basements or confined areas.

7.HANDLING AND STORAGE

Handling

Technical measures

- : Use explosion-proof electrical/ventilating/equipment.
- Use non-sparking tools.

Local and general ventilation

- : When used in an indoor workplace, install equipment to seal the source or install local exhaust ventilation.
- Provide exhaust ventilation to keep the airborne concentration below the exposure limit.

Safe handling advice

- : Obtain special instructions before use.
- Do not handle until safety precautions have been read and understood.
- Keep container tightly closed.
- Do not breathe dust/mist/vapours.
- Wash hand thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.

Avoidance of contact

- : Please refer to section 10.

Storage

Technical measures

- : In the storeroom, install the daylighting, lighting, and ventilating equipment needed for storing or handling hazardous substances.

Storage conditions

- : Keep away from heat/sparks/open flames/hot surfaces and sunlight.
- Keep away from oxidizing agents.
- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool. Store locked up.

Safe containers and packaging materials

- : Store in original containers.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

	Standard control concentration	Occupational exposure limits	
		Japan society for occupational health	ACGIH
Hexamethylenetetramine	Not established	Not established	Not established
Phenol	Not established	5ppm 19 mg/m ³	TLV-TWA 5ppm

Equipment measures

- : Make available in the work area with emergency shower and eye washer.
- Provide ventilation to control exposures within the exposure limit.

Personal protection equipment

- Respiratory protection : Gas masks for organic vapor
- Hand protection : Solvent-proof of protection gloves
- Eye protection : Safety goggles
- Skin protection : Face shield, full-body suit, impervious boots and apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Paste
Color	: Green
Odor	: Oily odor
Melting point/freezing point	: No data
Boiling point	: No data
Flammability	: Inflammable at high temperatures.
Explosion limit	: No data
Flash point	: 292°C(Caster oil)
Auto-ignition temperature	: 449°C(Caster oil)
Decomposition temperature	: No data
pH	: No data
Kinematic Viscosity	: No data
Solubility	: Insoluble in water
Vapor pressure	: No data
Vapor density	: No data
Specific Gravity (Relative Density)	: 1.4(20°C)

10. STABILITY AND REACTIVITY

Reactivity	: Refer to " Possibility of hazardous reactions ".
Chemical stability	: Stable under normal condition and anticipated storage. Some oxidative degradation due to vegetable oil-based products.
Possibility of hazardous reactions	: Reacting violently with oxidizing agent can cause fire or the explosion.(phenol)
Conditions to avoid	: Contact with incompatible hazardous substances.
Incompatible materials	: Oxidizing substances
Hazardous decomposition products	: Carbon monoxide and carbon dioxide from combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity, oral	: Hexamethylenetetramine(Not classified) rat LD ₅₀ :9200 mg/kg Phenol (Category 4) rat LD ₅₀ :375mg/kg
Acute toxicity, dermal	: Hexamethylenetetramine(Not classified) rat LD ₅₀ :>2000mg/kg Phenol (Category 3) rat LD ₅₀ :670 mg/kg
Acute toxicity, inhalation; vapour	: No data
Acute toxicity, inhalation; dust	: No data
Skin corrosion/irritation	: Hexamethylenetetramine(Not classified) Phenol(Category 1)
Serious eye damage /eye irritation	: Hexamethylenetetramine(Not classified) Phenol (Category 1)
Respiratory sensitization	: No data
Skin sensitization	: Hexamethylenetetramine (Category 1) Phenol (Not classified)
Germ cell mutagenicity	: Phenol (Category 2)
Carcinogenicity	: Phenol(Not classified)

Reproductive toxicity : Hexamethylenetetramine (Category 2) Phenol (Category 1B)
Specific target organ toxicity, single exposure : Phenol (Category 1(Respiratory system, Cardiovascular system, Kidney, Nervous system))
Specific target organ toxicity, repeated exposure : Hexamethylenetetramine (Category 1(Systematic toxicity, Kidney, Urinary bladder)) Phenol (Category 1(Central nervous system, Cardiovascular system, Blood circulatory system, Liver, Kidney))
Aspiration hazard : No data

12.ECOLOGICAL INFORMATION

Short-term (acute) hazardous to the aquatic environment : Hexamethylenetetramine (Not classified) Phenol (Category 2)
Long-term (chronic) hazardous to the aquatic environment : Hexamethylenetetramine (Not classified) Phenol (Category 2)
Ecotoxicity : Hexamethylenetetramine Crustacea Daphnia magna EC ₅₀ (48H):>100mg/L Phenol Crustacea Ceriodaphnia quadrangular LD ₅₀ :3.1 mg/L
Persistence and degradability : Hexamethylenetetramine Not persistently water soluble (water dissolution = 4.49* 10 ⁵ mg/L). Phenol Rapid degradability. (Degradability by BOD: 85%)
Bioaccumulation : No data
Mobility in Soil : No data
Hazardous to the ozone layer : No data

13.DISPOSAL CONSIDERATIONS

- Residual waste
: Dispose of waste material at an approved waste treatment/disposal facility in accordance with applicable local, federal regulations.
- Contaminated containers or packing
: Remove contents completely before the disposal of empty container.
Follow all regulation in your country or region.

14.TRANSPORT INFORMATION

- UN Number : Not applicable
Proper Shipping Name : Not applicable
Class : Not applicable
Packing Group : Not applicable

Regulations in Japan

- Land transport : Follow the transportation laws and regulations pursuant to the applicable fire laws, occupational safety and Health Act, poison play method.
- Maritime transport : According to ship safety law.
- Air transport : Follow the prescribed air technique.

Special precautions

- : Confirm that there is no damage to the container or leakage, and load the substance by enforcing preventive measures against load collapse, so as not to cause shock, inversion, fall and damage.
If a hazard such as a large leakage is likely to occur during transportation, take emergency

measures for hazard prevention and notify the closest fire department and other related organizations of the matter.

15.REGULATORY INFORMATION

* Regulations in Japan

Fire Services Act

: Designated combustibles (combustible liquid)

Pollutant Release and Transfer Register (PRTR) Act

: Class I Designated Chemical Substance(Hexamethylenetetramine;1.3%)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

: Priority assessment chemical substances(Phenol)

Industrial Safety and Health Act

: Indication substance(Phenol)

Notification substance (Phenol)

Ship Safety Act

: Not applicable

Civil Aeronautics Act

: Not applicable

16.OTHER INFORMATION

This safety data sheet was prepared in accordance with JIS Z 7253:2019.

The information herein is given in good faith, but no warranty, express or implied, is made.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and be used in caution.