

Safety Data Sheet (SDS)

1. Identification

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Product name: **US GREASE 93H-O**

Intended use: Lubricating grease

2. Hazard Identification

GHS classification: —

GHS symbol: —

Signal Word: —

Hazard statement: —

Cautions: Even when there is no statement in the above-mentioned notes by GHS classification, perform sufficient consideration for subsequent information to reference about safety measures / emergency measure / storage / abandonment.

3. Typical Composition

Typical Composition :	Composition	Content	Cas
	Mineral Oil (Highly refined mineral oil)	80-90 %	Listed
	Thickener	1-10 %	Listed
	Additives	10-20 %	Listed

4. First-aid Measures

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, call a physician.

If on skin: Wash the affected part with soap and water. If skin irritation occurs, get medical advice/attention.

If in eyes: 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: Do not induce vomiting. Get immediate medical attention.
If mouth becomes contaminated, thoroughly wash out with water.

5. Fire-fighting Measures

Extinguishing Media: Dry chemical powder, foam, CO₂
extinguishing media which must not be used:

Do not use direct jet of water to extinguish a fire. It may spread the fire and can be very dangerous.

Specific hazards: Containers may explode when heated.

Specific methods of fire-fighting: The container might explode by heating.

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

Protective action for

fire-fighters: Wear protective equipment while extinguishing the fire.

6. Accidental Release Measures

Personal precautions: Isolate spill area immediately and maintain a suitable distance in all directions. Keep unauthorized people away.

Take equipment measures specified in 8 "Exposure Controls/Personal Protection" and wear protective equipment.

Do not touch or walk through spilled material.

Protective equipment and emergency

procedures: Ensure product does not flow into waterways and drainage systems.

Environmental precautions: Remove all ignition sources immediately and stop leaks at the site.

Evacuate dangerous areas. Rope off the dangerous area and keep people out.

For small spills, absorb with sand, sawdust, waste cloth, etc., and then wipe up completely.

For large spills, make a dike to keep the material from spreading and drain to a safe place for later containment.

Recovery, neutralization and
method and equipment for
containment and cleaning up:

Remove all ignition sources immediately and stop leaks at the site.
Evacuate dangerous areas. Rope off the dangerous area and keep people out.
For small spills, absorb with sand, sawdust, waste cloth, etc., and then wipe up completely.
For large spills, make a dike to keep the material from spreading and drain to a safe place for later containment.

Prevention measure for second

accident: Get rid of ignition sources in the region immediately and prepare extinguishing media.

7. Handling and Storage

Handling: Technical measures: Take equipment measures specified in 8 "Exposure Controls/Personal Protection" and wear protective equipment.

Local exhaust, general

exhaust: Carry out local exhaust and general ventilation specified in 8 "Exposure Controls/Personal Protection".

Precautions for safe

handling: Do not handle until all safety precautions have been read and understood

Flammable liquid and vapor: May cause fire or explosion. Keep away from sparks or flames.

Use explosion-proof electrical, ventilating, and lighting equipment.

May cause fire hazards associated with static electricity. Earthing (grounding work) is required for handling this product.

Wear protective gloves, protective glasses, and face protection.

Do not breathe gas, mist, vapors, or spray.

Keep away from direct sunlight and store in a well-ventilated place.

Use only outdoors or in a well-ventilated area.

Rinse cautiously with water after use.

Contact evasion: Reference in 10 "Stability and Reactivity "

Storage: Technical measures: The roof is made from the noncombustible matter, and do not tile by a metallic board and other light noncombustible matters and do not install the ceiling in the inventory location.

Assume the floor in the inventory location to be a structure that infiltrates water to the floor face or doesn't infiltrate.

It is assumed the structure that dangerous articles do not infiltrate.

The equipment of a lighting, a lighting, and ventilation necessary to store or to handle dangerous articles is installed in the inventory location.

Incompatible materials: Strong acids, oxidant

Appropriate storage

condition: Keep away from direct sunlight and store in a well-ventilated place.

Store with labels indicating that the material is hazardous.

Avoid heat, sparks, flames, and accumulation of static electricity.

Storage conditions to

avoid: Avoid contact and storage in the same place with strong acids or oxidants.

8. Exposure Controls/Personal Protection

Administrative level: Not specified.

Permissible exposure limit: ACGIH (year 2011 edition) TLV-TWA 5 mg/m³ (as mineral oil mist)

Facility measures: Goggle , Ventilator

Respiratory protection: Wear appropriate respiratory protection.

Hand protection: Wear protective gloves.

Eye protection: Wear protective glasses.

Skin and body protective equipment: Wear suitable protective equipment if needed.

9. Physical and Chemical Properties

Physical state: Semi-solid

Color: yellow

Odor: Little odor

pH: No data available

Melting/freezing point: No data available

Boiling point, initial boiling point

and boiling range: No data available

Flash point: >200°C (SETA)

Explosive range: The upper limit 7 vol%, The lower 1 vol% (presumption)

Specific gravity: 0.9 g/cm³ (15°C)

Solubility: Insoluble in water

Penetration: 355-385 (25°C)

10. Stability and Reactivity

Stability: Stable

Possibility of hazardous reactions: Contact with strong oxidizing agent.

Conditions to avoid: It is noted not to come in contact with halogens, strong acids, the alkalis, and oxidizers.

Incompatible hazardous materials: Strong oxidizing agent

Hazardous decomposition products: CO, CO₂

11. Toxicological Information (As highly refined mineral oil)

Acute toxicity: Oral Rat LD₅₀ >5 g/kg (presumption)Dermal Rat LD₅₀ >5 g/kg

Vapor No data available.

Mists Rat LC₅₀ 5mg/L (4h)

Skin corrosion/irritation: There is no information classified into dermal irritation. The result classified into dermal irritation is not obtained in two or more skin stimulus examinations depended on a rabbit. However, keep in mind that it may cause the dermatitis by skin degreasing a long period of time or when it contacts repeatedly.

Serious eye damage/eye irritation: There is no information classified into eye stimulativeness. The result classified into eye stimulativeness is not obtained in two or more ophthalmological eye irritation tests depended on a rabbit.

Respiratory sensitization: No data available.

Skin sensitization: It is the result of having no skin sensitization by an eyelash curler test (guinea pig).

Germ cell mutagenicity: Although the wide range mutagenicity test (in vivo and in vitro) is carried out, the result which shows mutagenicity is not obtained from most results, but it is judged that he has no productive cell mutagenicity.

Carcinogenicity: IARC group III

Reproductive toxicity: No data available

Specific target organ toxicity: The single time exposure toxicity to the various particular organs by acute study is not accepted.

Specific target organ toxicity: Although the repetitive toxicity test for four weeks by dermal and inhalation medication to two years was done, influence on the whole body was not checked.

Aspiration hazard: Since 40 °C kinematic viscosity does not correspond to hydrocarbon of 20.5 mm²/s or less, it cannot classify.

12. Ecological Information (As highly refined mineral oil)

Aquatic life environmental

toxicity: In order to hardly dissolve in water, the corruption to an aquatic life is produced.

Fishes acute toxicity: Fish (Fathead minnow 96h) LL₅₀ >100mg/L

Fishes maximum non-influence

quantity: Fish (Fathead minnow 14days) NOEL >100mg/L

Crustacea swimming prevention: Crustacea (Daphnia magna 48h) EL₅₀/NOEL >10,000mg/L

Crustacea maximum non-influence

quantity: Fish (Daphnia magna 21days) NOEL >10mg/L

Seaweed maximum non-influence

quantity: Algae (Selenastrum) NOEL >100mg/L

Microbe luminescence

prevention: The luminescence prevention by the luminescence examination (4days) of a microbe was not checked.

Aquatic life environmental

acuteness hazardous property: It is judged that he has no aquatic life environmental acuteness hazardous property.

Aquatic life environmental

chronicity hazardous property: It is judged that he has no aquatic life environmental acuteness hazardous property.

Mobility: Since a biodegradable test result is 31% (for 28 days), it has essential biodegradability, but it is judged that it is not ready biodegradability.

Persistence and resolvability: Since a biodegradable test result is 31% (for 28 days), it has essential biodegradability, but it is judged that it is not ready biodegradability.

Bioaccumulation potential: No data available.

Hazardous to the ozone layer: Not contain the appropriate materials.

Others: The above-mentioned information is not based on partial information and similar substance, and perfect information is not necessarily acquired.

13. Disposal Considerations

Residual wastes: Dispose of waste in accordance with the related regulations and the local government's regulations.

If an industrial waste disposal contractor licensed by the prefectural governor or a local public organization carries out the disposal, entrust the disposal of waste to them.

To entrust the disposal of wastes, previously make the disposer well aware of the danger and hazard of the waste.

Container and package: Take appropriate action in accordance with the related regulations and local government regulations.

14. Transport Information

National regulations

Marine transport: IMDG Not regulated

Air transport: ICAO/IATA Not regulated

UN Number: Not applied

Product Name: -

UN classification: Not applied

Specific safety measures and

conditions for transport: Fire strict prohibition

15. Regulatory Information

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16. Other Information (References and others)

NFPA 704 and HMIS® III Rating (NFPA: National Fire Protection Association)

(HMIS: Hazardous Materials Identification System)

Each one has its own code. The blue, red, orange, and yellow spaces each have a number between 0 and 4, the higher the number the more hazardous the material.

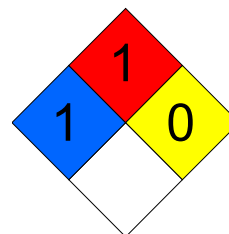
NFPA 704 CODES

Blue/Health:1

Red/Flammability:1

Yellow/Instability・Reactivity: 0

White/Personal Protection:non



HMIS® III RATING

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

Japan Industrial Safety and Health Association; Japan Advanced Information Center of Safety and Health; GHS Model SDS
etc.

Safety data sheet contains reference information to ensure the safe handling of the hazardous chemical product and is provided to companies dealing with the product. Please be sure that the companies handling the product use this information as reference at their own risk, understanding the necessity for adequate precautions in accordance with the circumstances of each situation. For this reason, this data sheet is not to be considered a warranty of safety.