Revised on: November 7, 2011

Material Safety Data Sheet (SDS)

1 PRODUCT AND COMPANY IDENTIFICATION

Product name Optical Helicoid Grease #10

Company name Japan Hobby Tool Co, Ltd.

Address 1-10-5 Sugamo, Toshima-ku, Tokyo

Department Sales Department
Phone number 03-3944-1683
Emergency phone number 03-3944-1683
Fax number 03-3944-1684

2 HAZARDS IDENTIFICATION

GHS classification

Physical hazards: Flammable liquids Not classified

Pyrophoric liquids Not classified

Health hazards: Acute Toxicity (oral) Not classified

Skin corrosion/irritation

Serious eye damage/eye irritation

Not classified

Not classified

Not classified

Not classified

Specific target organ/systemic toxicity Category 3 (Respiratory tract

(single exposure) irritation)

Environmental hazards:

Note: Items not listed above fall under either Not applicable or

Classification not possible

Label elements



Pictogram or symbol:

Signal word: Warning

Hazard information: May cause respiratory irritation

Precautionary statement: [Safety measures]

Do not handle until all safety precautions have been read and

understood.

Obtain special instructions before use.

Do not eat, drink or smoke when using this product.

Avoid breathing mist/vapors/sprays. Wash hands thoroughly after handling.

[First-aid]

IF INHALED: Move to fresh air and keep at rest.

If feeling unwell, seek medical advice/attention.

IF SWALLOWED: Seek medical advice/attention. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easily done, and rinse the eyes.

If eye irritation persists, seek medical advice/attention. If skin irritation occurs, seek medical advice/attention.

[Storage]

Keep containers tightly closed in a well-ventilated, cool place.

[Disposal]

When disposing of the substance and container, contract with an industrial waste treatment firm authorized by the prefectural governor.

National or regional information:

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical or generic name: Grease (hydrocarbon oil, thickener, and additive)

Ingredients and composition:

Ingredients	Content	Chemical	Reference number in
		formula	Japan gazette list
Base oil (Polyalphaolefin)	80%	C_nH_{2n+2}	(6)-1109
		(JCSCL/ISHL)	
Thickener (Lithium soap)	5%	Not disclosed	Not disclosed
Lubricant additive	15%	Not disclosed	Not disclosed

Article 57-2 of the Industrial Safety and Health Law: Not applicable PRTR*: Not applicable

(*Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof)

Impurities and stabilizing additives which contribute to the classification: Does not contain regulated substances and designated hazardous substances in additives.

4 FIRST-AID MEASURES

If affected by the product, cover with blanket to keep warm and keep at rest after first aid measures. Immediately seek medical attention.

Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing.

If feeling unwell, seek medical advice/attention.

Skin contact: Immediately wash skin.

If skin irritation occurs, seek medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. And remove contact lenses,

if present and easily done. Continue rinsing.

If eye irritation persists, seek medical advice/attention.

Ingestion: Contact a doctor immediately. Do not induce vomiting. Rinse mouth.

Most important signs and symptoms:

Protection of first-aider: Wear protective equipment to avoid skin contact.

5 FIRE-FIGHTING MEASURES

Extinguishing media: Foam, powder, carbon dioxide, dry sand, atomized fire

extinguishing liquid

Unsuitable extinguish media: Pouring water may spread fire and be dangerous.

Protection of fire fighters: Wear appropriate self-contained compressed-air breathing

apparatus and protective clothing during firefighting.

Firefighting measures for fire area: Keep unauthorized persons away from fire area. Cool down

surrounding combustible materials and facility by spraying water. Remove combustible materials to a safe place if

movable.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not touch leaked product.

Emergency measures: Isolate appropriate spill or leak area immediately in all

directions.

Keep unauthorized persons away from the area.

The worker must wear appropriate protective equipment to

avoid eye/skin contact or inhalation.

Ventilate enclosed areas before entering. When not wearing

appropriate protective clothing, do not touch damaged

container or leaked product.

Environmental precautions: Do not release into the environment. Do not release into

rivers and sea.

Salvage/neutralization: If a small spill, wipe off with paper or cloth.

If large spill, absorb it with dry sand or noncombustible material, or put it into an empty container that can be sealed by covering it. Then, wipe off the remaining with a waste

cloth.

Prevention of secondary hazards Immediately eliminate all ignition sources (no smoking,

sparks, or flames in immediate area).

Prevent the spillage from entering drains, sewers, basement,

or closed area.

7 HANDLING AND STORAGE

Handling

Safe handling precautions: Prohibit high-temperature materials, sparks, and fire in

vicinity.

Avoid handling of the container such as turning over, falling,

or impacting.

Do not contact, inhale, or swallow.

Wash hands thoroughly after handling the product. Do not eat, drink or smoke when using this product.

Avoid environmental release.

Storage

Technical measures Take measures in accordance with the regulations of the Fire

Service Act.

Storage conditions Store away from ignition sources, such as heat, sparks, and

open fire.

Store away from oxidizing agents.

Store in a tightly closed container in a cool and well-ventilated

place away from direct sunlight.

Lowest/highest temperatures for storage: -10°C to 40°C.

8 EXPOSURE PREVENTING MEASURES

Control concentration: Not specified

Permissible concentration: Technical facility controls:

Protective equipment, respiratory Wear mask as required.

protection:

Hand protection: Upon prolonged or repeated contacts, wear the oilproof

protective gloves.

Eye protection: When splashes are expected, wear eye protection.

Skin and body protection: Wear the oilproof work clothing for prolonged handling.

Specific hygiene measures: Wash hands thoroughly after handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state, shape, color, etc.:

Odor:

pH:

No data available

Pour point:

Melting point, freezing point:

Boiling point, initial boiling point, and boiling

No data available

No data available

No data available

range:

Flash point: Not less than 200°C

Explosive range: Explosive range of base oil was estimated as follows:

Upper limit 7%, Lower limit 1%

Vapor pressure:

Vapor density (air = 1):

No data available

No data available

Specific gravity (density):

No data available

Solubility: Solubility in water: Insoluble

Octanol-water-partition coefficient: No data available
Auto-ignition temperature: No data available

10 STABILITY AND REACTIVITY

Stability: Stable at normal temperature.

Possibility of hazardous reactions: No self-reactive, non-oxidizing, no pyrophoric, non explosive.

Conditions to avoid: Avoid contacting with strong oxidizing agents.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Incomplete combustion may produce carbon monoxide.

11 TOXICITY INFORMATION

Acute toxicity: oral Rat LD50: Not less than 5 g/kg (estimation)

"No irritation" according to the description of Chevron Philips

Chemical Company.

Applicable as "Not classified" under GHS based on the

product SDS (June 27, 2008).

Dermal Rat LD50: Classification not possible because of insufficient

data.

Inhalation (vapor) No information available
Inhalation (mist) No information available

Skin corrosion, skin irritation: "No irritation" according to the description of Chevron Philips

Chemical Company

Applicable as "Not classified" under GHS based on the

product SDS (June 27, 2008).

Serious Eye Damage/eye Irritation: "No irritation" according to the description of Chevron Philips

Chemical Company

Applicable as "Not classified" under GHS based on the

product SDS (June 27, 2008).

Respiratory sensitization: No information available

Skin sensitization/irritation: "No skin irritation" according to the description of Chevron

Philips Chemical Company. Applicable as not classified under

GHS based on the product SDS (June 27, 2008).

Germ cell mutagenicity: No information available

Carcinogenicity: Not classified as carcinogen by IARC and NTP. Reference 4

Evaluation by EU: No notification of carcinogenicity is

required. Reference 5

Reproductive toxicity: No information available

Specific target organ/systemic toxicity

specific target organizationne toxicity

(single exposure):

"May cause damage to respiratory tract system"

according to the description of Chevron Philips Chemical

Company

Applicable as "Not classified" under GHS based on the

product SDS (June 27, 2008).

Specific target organ/systemic toxicity

(repeated exposure):

No information available

Aspiration hazard: No information available

12 ECOLOGICAL INFORMATION

Ecotoxicology:

Acute fish toxicity
Immobilization of crustaceans
Growth inhibition of algae
Persistence/degradability:
No information available
No information available
No information available
No information available

Mobility in soil: No information available Other adverse effects: No information available

Acute hazards to aquatic environment:

Chronic toxicity to aquatic

environment:

Classification not possible because of insufficient data Classification not possible because of insufficient data

13 DISPOSAL CONSIDERATIONS

Residues: Dispose of in accordance with the applicable laws and

regulations and local requirements.

Dispose of by entrusting disposal to an industrial waste disposal company authorized by the prefectural governor. Clean up containers for recycling or dispose of them in

Contaminated containers and

packages:

accordance with the applicable laws and regulations and

local requirements.

14 TRANSPORT INFORMATION

International regulations

Maritime regulatory information: Non-dangerous articles Aviation regulatory information: Non-dangerous articles

Domestic regulations

Rail and road regulatory information: Non-dangerous articles Maritime regulatory information: Non-dangerous articles Aviation regulatory information: Non-dangerous articles

Specific safety measures: When transporting, avoid direct sunlight, load carefully to

prevent damage, corrosion, and leakage.

Secure the product to prevent the stack from collapsing. Follow directions in Section "7 HANDLING AND

STORAGE"

15 REGULATORY INFORMATION

Fire Service Act

Industrial Safety and Health Law Not applicable **PRTR** Not applicable

(Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment

and Promotion of Improvements to the Management Thereof)

Water Pollution Control Law: Oil effluent regulations (Detected as an n-hexane extract.) Sea Water Protection Law: Oil effluent regulations (prohibited in principle) (Mineral oil)

Wastes Disposal and Public Cleansing

Act: Sewage Act

Mineral oil effluent regulations (5 mg/L permissible

Rules for industrial waste (prohibition of diffusion and

concentration)

16 OTHER INFORMATION

Reference: Data from other company

- 1) National Institute of Technology and Evaluation: Chemical Risk Information Platform (CHRP)
- 2) National Institute of Technology and Evaluation: GHS classification result database
- 3) Japan Chemical Industry Association: Guidelines for the preparation of SDS (2nd revised edition)
- 4) IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINGENIC RISK OF CHEMICALS TO HUMANS:VOLUME 33
- 5) Annex 1 of the EU Council Directive 67/548/EEC, "List of Dangerous Substances"

This SDS is based on information available at the time of preparation; however, the data and assessments described herein are not guaranteed in any sense. The precautions are applicable to normal handling. For handling under special conditions, users should implement their own safety measures appropriate to their purposes or new applications.