

SAFETY DATA SHEET

MOLYGREEN HD 10W30 DH-2/CF-4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name : MOLYGREEN HD 10W30 DH-2/CF-4
Product code : 3512948

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
4 CYCLE DIESEL ENGINE OIL
For specific application advice see appropriate Technical Data Sheet or consult our company representative

Details of the supplier of the safety data sheet

COSMO OIL LUBRICANTS CO.,LTD.
1-1, Shibaura 1-Chome,
Minato-ku Tokyo, 105-8331 Japan

Emergency Telephone Number

+81-3-3798-3875

2. HAZARDS IDENTIFICATION

(EC) No 1272/2008 [CLP]

This product is classified as dangerous in accordance with Directive 1272/2008/EEC.
Symbol : Exclamation mark
Signal word : Warning
Hazard statement : H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction

GHS Classification

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For further health effects/toxicological data, see Section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	EC No	Weight %	CLP Classification
Mineral Oil	Confidential	Confidential	90-99	Note L
Additive	N.A.	N.A.	1-10	H319,H317

Note L

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

The producer of "Mineral Oil" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST-AID MEASURES

Description of first aid measures

Eyes :

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open.
Obtain medical advice if any pain or redness develops or persists.

Skin :

Wash skin thoroughly with soap and water as soon as reasonably practicable.
Remove heavily contaminated clothing and wash underlying skin.

Ingestion :

If contamination of the mouth occurs, wash out thoroughly with water.
Except as a deliberate act, the ingestion of large amounts of product is unlikely.
If it should occur, do not induce vomiting; obtain medical advice.

Inhalation :

If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Use foam, dry powder or water fog. Do not use water jets.

Special hazards arising from the substance or mixture

Toxic fumes may be evolved on burning or exposure to heat.
See Section 10 for information on stability and reactivity.

Advice for firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
Water may be used to cool nearby heat exposed areas/objects/packages.
Avoid spraying directly into storage containers because of the danger of boil-over.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure good ventilation. Evacuate all non essential personnel from the immediate area.
Spilled material may make surfaces slippery.
Use appropriate Personal Protective Equipment (PPE).

Environmental precautions

Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

Methods and material for containment and cleaning up

Contain and recover spilled material using sand or other suitable inert absorbent material.
It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
In the case of large spills contact the appropriate authorities.

Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.
Avoid frequent or prolonged skin contact with fresh or used product.
Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
Whilst using do not eat, drink or smoke.
Wash hands thoroughly after contact.
Use disposable cloths and discard when soiled.

Conditions for safe storage, including any incompatibilities

Store under cover away from heat and sources of ignition.
Containers must be properly labelled and kept closed when not in use.
Empty packages may contain some remaining product. Retain hazard warning labels on empty packages as a guide to the safe handling, storage and disposal of empty packaging.

Specific end use(s)

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product contains mineral oil.
Under conditions which may generate mists, observe the OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter.

Exposure controls

Wear face visor or goggles in circumstances where eye contact can accidentally occur.
Change heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before re-use.
Wash any contaminated underlying skin with soap and water.
Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled.
The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.

9. PHYSICAL AND CHEMICAL PROPERTIES Typical Values

	Units	
Physical state		Clear liquid
Color		Light brown
Odor		Mild Oil Odor
Density @ 15°C	g/cm ³	0.87
Flash point (COC)	°C	216
Pour point	°C	-37.5
Solubility in Water		Insoluble
Viscosity(@40°C)	mm ² /s	65.8

10. STABILITY AND REACTIVITY

Reactivity

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Chemical stability

Stable under normal storage conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Heat. Incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.
Incomplete combustion/ thermal decomposition will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity :

Oral

The LD50 in rat is > 5000mg/kg.

Dermal

The LD50 in rat is > 5000mg/kg.

Skin corrosion/irritation :

Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious eye damage/ irritation :

May cause eye irritation. Based on data from components or similar materials.

Respiratory irritation :

No data available to indicate product or components may be a respiratory irritation.

Respiratory or skin sensitization :

Skin

May cause an allergic skin reaction.

Respiratory

No data available to indicate product or components may be a respiratory sensitizer.

Germ cell mutagenicity :

No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity :

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex 1. The producer of "Mineral Oil" declares that it contains less than 3% DMSO extractable material by IP 346.

USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

Reproductive toxicity :

No data available to indicate either product or components at greater than 0.1% that may cause reproductive toxicity.

Specific target organ toxicity (repeated exposure) :

No data available to indicate product or components present at greater than 0.1% that may cause STOT repeated exposure.

Other information :

No other health hazards known.

12. ECOLOGICAL INFORMATION

Toxicity

Not expected to be harmful to aquatic organisms.

Persistence and degradability

This product is not expected to be readily biodegradable.

Bioaccumulative potential

There is no evidence to suggest bioaccumulation will occur.

Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

Results of PBT and vPvB assessment

No additional information available.

Other adverse effects

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Where possible, arrange for product to be recycled.

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil.

14. TRANSPORT INFORMATION

IMDG/IMO : Not regulated

RID : Not regulated

ADR : Not regulated

ICAO : Not regulated

IATA : Not regulated

15. REGULATORY INFORMATION

CLP

This product is classified as dangerous in accordance with Directive 1272/2008/EEC.

CLP pictgrams



Signal word Warning

CLP Hazard statements H319 - Causes serious eye irritation
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CLP Precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with soap and water.
P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do – continue rinsing
P333+P313 - IF skin irritation or a rash occurs: Get medical advice/attention
P337+P313 - Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

GHS

GHS pictgrams



Signal word Warning

GHS Hazard statements H319 - Causes serious eye irritation
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16. OTHER INFORMATION

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside the Cosmo Oil Lubricants. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practise any patented invention without a valid licence. Cosmo Oil Lubricants shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.