



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	Comma LHM Plus
Registration number	-
Synonyms	None.
Product code	LHM*L
Issue date	30-November-2022
Version number	05
Revision date	30-November-2022
Supersedes date	27-November-2022

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

Identified uses	Hydraulic oil
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Moove Lubricants Ltd.
Address	Comma Oil & Chemicals Marketing B.V Moove Lubricants Netherlands Herikerbergweg 238, 1101CM, Amsterdam NL
Division	
Telephone	Telephone + 31208083061
e-mail	technical@uk.moovelub.com
Contact person	Not available.

1.4. Emergency telephone number

Asia Pacific	+ (1) 760 476 3960
China	+ (86) 4001 2001 74
Europe	+ (44) 8 08 189 0979
Middle East/Africa	+ (1) 760 476 3959
Ireland National Poisons Info	+353 1 809 2566
Healthcare professionals-24/7 (public, 8am - 10pm, 7/7)	+353 1 809 2166
Access Code	334498

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

Hazard summary May be fatal if swallowed and enters airways. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

UFI

Austria: 1S60-V066-H00T-N98V
 Belgium: 1S60-V066-H00T-N98V
 Bulgaria: 1S60-V066-H00T-N98V
 Cyprus: 1S60-V066-H00T-N98V
 Czech Republic: 1S60-V066-H00T-N98V
 Denmark: 1S60-V066-H00T-N98V
 Estonia: 1S60-V066-H00T-N98V
 EU: 1S60-V066-H00T-N98V
 Finland: 1S60-V066-H00T-N98V
 France: 1S60-V066-H00T-N98V
 Germany: 1S60-V066-H00T-N98V
 Greece: 1S60-V066-H00T-N98V
 Hungary: 1S60-V066-H00T-N98V
 Iceland: 1S60-V066-H00T-N98V
 Italy: 1S60-V066-H00T-N98V
 Latvia: 1S60-V066-H00T-N98V
 Lithuania: 1S60-V066-H00T-N98V
 Luxembourg: 1S60-V066-H00T-N98V
 Malta: 1S60-V066-H00T-N98V
 Netherlands: 1S60-V066-H00T-N98V
 Norway: 1S60-V066-H00T-N98V
 Poland: 1S60-V066-H00T-N98V
 Portugal: 1S60-V066-H00T-N98V
 Romania: 1S60-V066-H00T-N98V
 Slovakia: 1S60-V066-H00T-N98V
 Slovenia: 1S60-V066-H00T-N98V
 Spain: 1S60-V066-H00T-N98V
 Sweden: 1S60-V066-H00T-N98V
 UK: 1S60-V066-H00T-N98V

Contains:

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based

Hazard pictograms



Signal word

Danger

Hazard statements

H304

May be fatal if swallowed and enters airways.

Precautionary statements

Prevention

P260

Do not breathe mist.

Response

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P331

Do NOT induce vomiting.

Storage

Not available.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

Contains (4-nonylphenoxy) acetic acid. may produce an allergic reaction.

2.3. Other hazards

This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based	70 - < 80	72623-86-0 276-737-9	01-2119474878-16	649-482-00-X	
Classification:	Asp. Tox. 1;H304				L
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	10 - < 20	1174522-45-2 -	01-2119826592-36	-	
Classification:	Asp. Tox. 1;H304				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	1 - < 3	1174522-19-0	01-2119480154-42	-	
Classification:	Asp. Tox. 1;H304				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Hydraulic oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Respirable fraction.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)	STEL	3 mg/m3	Fume and mist.
	TWA	15 ppm 1 mg/m3 5 ppm	Fume and mist. Fume and mist. Fume and mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Green.
Odour	Slight.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 110,0 °C (> 230,0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	0,1 hPa estimated
Vapour density	Not available.
Relative density	0,84
Relative density temperature	20 °C (68 °F)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms Aspiration may cause pulmonary oedema and pneumonitis.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Product	Species	Test Results
Comma LHM Plus		
<u>Acute</u>		
Oral		
LD50	Rat	2284 mg/kg

Components	Species	Test Results
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)

IARC Monographs. Overall Evaluation of Carcinogenicity

Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance information No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture. This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

UFI

Austria: 1S60-V066-H00T-N98V
Belgium: 1S60-V066-H00T-N98V
Bulgaria: 1S60-V066-H00T-N98V
Cyprus: 1S60-V066-H00T-N98V
Czech Republic: 1S60-V066-H00T-N98V
Denmark: 1S60-V066-H00T-N98V
Estonia: 1S60-V066-H00T-N98V
EU: 1S60-V066-H00T-N98V
Finland: 1S60-V066-H00T-N98V
France: 1S60-V066-H00T-N98V
Germany: 1S60-V066-H00T-N98V
Greece: 1S60-V066-H00T-N98V
Hungary: 1S60-V066-H00T-N98V
Iceland: 1S60-V066-H00T-N98V
Italy: 1S60-V066-H00T-N98V
Latvia: 1S60-V066-H00T-N98V
Lithuania: 1S60-V066-H00T-N98V
Luxembourg: 1S60-V066-H00T-N98V
Malta: 1S60-V066-H00T-N98V
Netherlands: 1S60-V066-H00T-N98V
Norway: 1S60-V066-H00T-N98V
Poland: 1S60-V066-H00T-N98V
Portugal: 1S60-V066-H00T-N98V
Romania: 1S60-V066-H00T-N98V
Slovakia: 1S60-V066-H00T-N98V
Slovenia: 1S60-V066-H00T-N98V
Spain: 1S60-V066-H00T-N98V
Sweden: 1S60-V066-H00T-N98V
UK: 1S60-V066-H00T-N98V

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based (CAS 72623-86-0)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative, toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.
Not available.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.

Revision information

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
HazReg Data: Europe - EU
GHS: Classification

Training information

Follow training instructions when handling this material.

Disclaimer

Moove Lubricants Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.