



LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue:

Revision date: 06/05/2015

version: 4.0

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

1.1. Product identifier

Product form : Mixture
 Product name : LHM+ Fluid for Citroën
 Product code : 25000
 Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Professional use
 Use of the substance/mixture : Automotive care products
 Function or use category : Hydraulic fluids and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
 Cyclotronweg 1
 2629 HN Delft - Nederland
 T +31 (0)15 2514030 - F +31 (0)15 2514031
info@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Asp. Tox. 1 H304
 Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

CLP Signal word : Danger.
 Hazardous ingredients : Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based, Baseoil - unspecified,; White mineral oil (petroleum)
 Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways
 H412 - Harmful to aquatic life with long lasting effects
 Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
 P102 - Keep out of reach of children
 P273 - Avoid release to the environment
 P301+P310 - IF SWALLOWED: Immediately call a doctor
 P331 - Do NOT induce vomiting
 P405 - Store locked up

LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

P501 - Dispose of contents/container to officially registered waste disposal company

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments (on top of composition) : This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based, Baseoil - unspecified,	(CAS No) 72623-86-0 (EC no) 276-737-9 (EC index no) 649-482-00-X	50 - 100	Asp. Tox. 1, H304
White mineral oil (petroleum)	(CAS No) 8042-47-5 (EC no) 232-455-8 (REACH-no) 01-2119487078-27	25 - 50	Asp. Tox. 1, H304
2,6-di-tert-butyl-p-cresol	(CAS No) 128-37-0 (EC no) 204-881-4 (REACH-no) 01-2119555270-46	0,1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenol, isopropylated, phosphate (3:1)	(CAS No) 68937-41-7 (EC no) 273-066-3	0,1 - 1	Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation : Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical attention.
After skin contact : Wash with plenty of soap and water.
After eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
After ingestion : Do NOT induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

After ingestion : Entering the lungs by ingestion or vomiting may cause severe lung damage.

4.3. Indication of any immediate medical attention and special treatment needed

Entering the lungs by ingestion or vomiting may cause severe lung damage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : hazy water, powder, foam and CO₂.
Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Self-contained breathing apparatus with an air line.
Other information : Exercise caution when fighting any chemical fire. Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and eye/face protection.

LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye/face protection.

6.2. Environmental precautions

Do not release in groundwater, surfacewater or sewerage. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Remove from the water surface (e.g. skimming, sucking).

Other information : Can be slippery on hard, smooth walking area. Ensure adequate ventilation.

6.4. Reference to other sections

Information on disposal - see Section 13. Information on personal protective equipment - see Chapter 8. Information on safe handling - see Section 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid aerosol formation. Provide adequate ventilation.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.

Storage area : Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

LHM+ Fluid for Citroën		
EU	IOELV TWA (mg/m ³)	5 mg/m ³
White mineral oil (petroleum) (8042-47-5)		
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (ppm)	10 ppm
2,6-di-tert-butyl-p-cresol (128-37-0)		
EU	IOELV TWA (mg/m ³)	10 mg/m ³

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m³ oilspray (TWA, 8 hour workday) is recommended.

8.2. Exposure controls

Technical measures : If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Personal protective equipment : Gloves.

Materials for protective clothing : Suitable material: nitrile rubber. PVC (Polyvinyl chloride). neoprene

Hand protection : Wear suitable gloves resistant to chemical penetration. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Polyvinylchloride (PVC), Neoprene rubber (HNBR)	5 (> 240 minutes)			EN 374

Eye protection : Safety glasses

Skin and body protection : Overall

Respiratory protection : Not necessary with sufficient ventilation. By prolonged exposure : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended



LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily.
Colour	: green.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 125 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 845 g/l
Solubility	: Water: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: 18 mm ² /s 40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing substances.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
	Entering the lungs by ingestion or vomiting may cause severe lung damage

White mineral oil (petroleum) (8042-47-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg

2,6-di-tert-butyl-p-cresol (128-37-0)

LD50 oral rat	890 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified

LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified (This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances)
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

LHM+ Fluid for Citroën

Viscosity, kinematic	18 mm ² /s 40°C
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

White mineral oil (petroleum) (8042-47-5)

LC50 fish 1	> 100 mg/l
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2,6-di-tert-butyl-p-cresol (128-37-0)

LC50 fish 1	0,199 mg/l
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12.2. Persistence and degradability

LHM+ Fluid for Citroën

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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2,6-di-tert-butyl-p-cresol (128-37-0)

Biodegradation	4,5 % @28d
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12.3. Bioaccumulative potential

2,6-di-tert-butyl-p-cresol (128-37-0)

Log Pow	5,1
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not dispose of with domestic waste.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Waste disposal according to official state regulations.
European List of Waste (LoW) code	: 13 01 10* - mineral based non-chlorinated hydraulic oils

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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LHM+ Fluid for Citroën

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 0 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product