SPINTA LHM

Product Code: SP-TR-LHM

Hydraulic fluid for braking and suspension circuits of some Citroen vehicles; rolling systems of road-train cabins

CLP STATUS: AQUATIC CHRONIC 3 - H412

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Mixture. Trade name: SPINTA LHM. Product code: SP-TR-LHM.
1.2 Relevant identified use: Hydraulic fluid for braking and suspension circuits of some Citroen vehicles; rolling systems of road-train cabins.
1.3 Supplier: SPINTA ITALIA S.r.l., Viale C. Battisti 15, 27100 Pavia (PV), Italy. Tel. +39 331 801 9355. SDS contact: info@spinta-lub.it.
1.4 Emergency telephone: CAV Centro Nazionale di Informazione Tossicologica - Pavia, Tel. +39 0382 24444; CAV Azienda Ospedaliera A. Cardarelli - Napoli, Tel. +39 081 5453333.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification: Direct and prolonged contact can cause eye and skin irritation. Hazards reported in Section 2 refer to the product in the finished form. Hazards are reduced if the product is used in water emulsion. EC Regulation 1272/2008 (CLP): Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.
2.2 Label elements: Pictograms: none. H412 Harmful to aquatic life with long lasting effects. P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with applicable regulations. Special Provisions: None. Annex XVII: Restricted to professional users.
2.3 Other hazards: No PBT, vPvB or endocrine disruptor substances present in concentration >=0.1%. No other hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N.A.
3.2 Mixtures: Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Substance	Identification	Classification
>=20% - <25%	Distillates (petroleum), hydrotreated light paraffinic	CAS 64742-55-8; EC 265-158-7	3.10/1 Asp. Tox.1 H304
>=20% - <25%	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	EC 934-954-2	3.10/1 Asp. Tox.1 H304
>=3% - <5%	Gas oils (petroleum), hydrodesulfurized	CAS 64742-79-6; EC 265-182-8	3.1/4/Inhal Acute Tox.4 H332; 3.2/2 Skin Irrit.2 H315; 3.10/1 Asp. Tox.1 H304; 4.1/Cc Aquatic Chronic2 H411 4.1/A1 Aquatic Acute1 H400 (M=1); 4.1/C1 Aquatic Chronic1 H410; 3.2/2 Skin Irrit.2 H315
>=0.5% - <1%	2,6-di-tert-butylphenol	CAS 128-39-2; EC 204-884-0	4.1/A1 Aquatic Acute1 H400 (M=10); 4.1/C1 Aquatic Chronic1 H410; 3.2/2 Skin Irrit.2 H315
>=0.1% - <0.25%	tris(methylphenyl) phosphate	CAS 1330-78-5; EC 215-548-8	4.1/A1 Aquatic Acute1 H400 (M=1); 4.1/C1 Aquatic Chronic1 H410 (M=1)
500 ppm	Branched dodecylphenol	CAS 121158-58-5; EC 310-154-3	4.1/A1 Aquatic Acute1 H400 (M=10); 4.1/C1 Aquatic Chronic1 H410 (M=10); 3.3/1 Eye Dam.1 H318; 3.7/1B Repr.1B H360; 3.2/1c Skin Corr.1C H314
50 ppm	Naphthalene	CAS 91-20-3; EC 202-049-5	3.1/4/Oral Acute Tox.4 H302; 3.6/2 Carc.2 H351; 4.1/A1 Aquatic Acute1 H400 (M=1); 4.1/C1 Aquatic Chronic1 H410

SECTION 4: FIRST AID MEASURES

4.1 Skin: Injuries due to high-pressure jets may require prompt surgical intervention and possibly steroid therapy to minimise tissue damage and loss of function. Accidental injection under the skin can occur without visible external damage; take the injured person to hospital as soon as possible and do not wait for symptoms. Remove contaminated clothing and wash thoroughly with water and soap. Call a doctor if necessary.
Eyes: Wash immediately with plenty of water for several minutes with eyelids open. Seek medical advice; call a doctor immediately if pain and redness persist.
Ingestion: Do NOT induce vomiting under any circumstances. Obtain medical examination immediately.
Inhalation: After high vapour/mist exposure, remove to fresh/well-ventilated air, keep warm and at rest; seek medical attention if necessary.
4.2 Symptoms/effects: None reported.
4.3 Immediate treatment: Fresh air/ventilation after high vapour or mist exposure; medical attention if necessary.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media: Suitable media: class B extinguishing media, carbon dioxide, dry chemical powder, foam, sand, earth, water and CO2. Avoid water jets; use water only to cool the surface of containers exposed to fire. No other unsuitable media are specified.
5.2 Special hazards: Avoid breathing combustion smoke/gases. Fire may form chlorine-, sulfur- and nitrogen-containing compounds, unburnt hydrocarbons and other potentially dangerous compounds. Burning produces heavy smoke.
5.3 Firefighters: Cool heat-exposed containers; use suitable breathing apparatus and full protective suit. Collect contaminated extinguishing water separately; do not discharge to drains. Move undamaged containers from hazard area if safe.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Avoid skin/eye contact; use PPE. For relevant spills, especially confined areas, avoid vapours, ventilate or use respiratory protection. Remove persons to safety. See Sections 7 and 8.
6.2 Environmental precautions: Prevent dispersion to soil, sewers and surface water. Retain contaminated wash water. Inform competent authorities if waterways, soil or drains are affected. Suitable uptake material: organic absorbent, sand.
6.3 Containment/clean-up: Spilled aerosol may ignite under suitable conditions. Contain large spills; absorb small spills with earth, sand or inert absorbent; transfer to suitable impermeable containers; dispose according to regulations; wash with plenty of water.
6.4 Reference: See Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Safe handling: Avoid direct contact and inhalation of aerosol/vapour. Ensure adequate ventilation, especially if confined. Do not smoke/use open flames; avoid sparks/ignition sources. Keep containers closed. Avoid skin/eye contact. See Section 8. Do not eat or drink while working.
7.2 Storage: Keep in original closed containers with leakage control/containment, in a cool, adequately ventilated place away from heat, ignition sources and sunlight. Avoid electrostatic charge. Keep away from food, drink and feed. Incompatible materials: none in particular.
7.3 Specific end uses: None in particular.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: No specific requirements in normal conditions. Avoid formation/diffusion of mist or aerosol using machine protection and localized ventilation/aspiration. No occupational exposure limit available. DNEL: N.A. PNEC: N.A.
8.2 Eye protection: Wear safety glasses whenever contact with the product is possible (UNI-EN 166). Not needed for normal use; operate according to good working practices.
Skin/body: Use full suit and apron in suitable material where needed; change contaminated clothing immediately and wash carefully before reuse. Maintain good personal and work-clothing hygiene (UNI-EN 465/466/467). No special precaution is required for normal use.
Hands: Wear work gloves resistant to mineral oils or solvents (e.g. neoprene, nitrile or PVC), preferably lined; replace when signs of wear are visible and use after adequate hand cleaning. Barrier creams may be useful for short contacts. Glove choice depends on use conditions and supplier information (UNI-EN 374). Not needed for normal use.
Respiratory: If operational conditions and other controls are insufficient to respect exposure limits, use respiratory protection with filter for organic vapours and dusts/mists (e.g. activated-carbon mask). Not needed for normal use.
Thermal hazards / environmental exposure / engineering controls: None reported.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value / method
Physical state	Liquid
Colour	Green
Odour	Characteristic
Melting/freezing point	-55°C; ASTM D97
Boiling point/range	Not defined / not available
Flammability	N.A.
Explosion limits	5.0 Vol% - 0.5 Vol%
Flash point	125°C; ASTM D92
Auto-ignition temperature	Not defined / not available
Decomposition temperature	Not defined / not available
pH	Not defined / not available
Kinematic viscosity (9.1)	N.A.
Solubility in water / oil	Insoluble / soluble
log Kow	Not defined / not available
Vapour pressure	0.1 hPa @20°C
Density	0.845 kg/dm3; ASTM D4052
Relative vapour density	Not defined / not available
Particle size	N.A.
9.2 Viscosity	18.0 cSt @40°C; 6.5 cSt @100°C; ASTM D445; explosive properties: Product not explosive

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Avoid strong acids, bases and strong oxidizers. Stable under normal conditions.
10.2 Chemical stability: Stable at room temperature / under normal conditions.
10.3 Hazardous reactions: None.
10.4 Conditions to avoid: Stable under normal conditions.
10.5 Incompatible materials: None in particular.
10.6 Hazardous decomposition products: None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 CLP hazard classes: Product hazard classes are not classified; based on available data, classification criteria are not met. Toxicological information for hazardous ingredients is reflected in Section 3.
11.2 Other hazards: No endocrine-disrupting substances at concentration >=0.1%.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: Product is classified Aquatic Chronic 3 (H412). Adopt good working practices to prevent environmental release.
12.2 Persistence/degradability: Although the product is not classified as hazardous for the environment, it is believed not to be easily biodegradable. The product sinks in water if density is >1 and floats if density is <1. It is easily dispersible in soil and water, easily absorbed in soil, may evaporate and be dispersed in air, is adsorbed superficially in soil, and evaporates with difficulty.
12.3 Bioaccumulation: N.A.
12.4 Mobility in soil: N.A.
12.5 PBT/vPvB: None.
12.6 Endocrine disruption: No endocrine-disrupting substances >=0.1%.
12.7 Other adverse effects: None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment: Send product (and emulsions, where applicable) and containers to approved companies, considering DPR 691 of 23/08/1982 (used-oil consortium) and Part IV of D.Lgs. 152/03-04-2006 and updates. Do not discharge to sewers, tunnels or watercourses. Recover if possible and comply with current local/national rules.

SECTION 14: TRANSPORT INFORMATION

14.1 UN/ID number: Not classified as dangerous under transport regulations.
14.2 Proper shipping name: N.A. 14.3 Transport class: N.A. 14.4 Packing group: N.A.
14.5 Environmental hazards: N.A. 14.6 Special precautions: N.A. 14.7 Maritime bulk transport per IMO: N.A.

SECTION 15: REGULATORY INFORMATION

15.1 Regulations: Dir. 98/24/EC; Dir. 2000/39/EC; Reg. (EC) 1907/2006 REACH; Reg. (EC) 1272/2008 CLP; Reg. (EC) 790/2009 (ATP1) and (EU) 758/2013; Reg. (EU) 2020/878; CLP ATPs 2-16: 286/2011, 618/2012, 487/2013, 944/2013, 605/2014, 2015/1221, 2016/918, 2016/1179, 2017/776, 2018/669, 2019/521, 2018/1480, 2020/217, 2020/1182, 2021/643.
REACH Annex XVII: Product restrictions: Restriction 3. Substance restrictions: Restriction 28.
Other provisions: Directive 2012/18/EU (Seveso III); Reg. (EC) 648/2004 detergents; Dir. 2004/42/EC VOC; D.M. 13 Feb 2003 PPE harmonized laws; D.Lgs. 81/09-04-2008 workplace health/safety; D.M. 14 Jan 2008 occupational disease reporting; D.P.R. 689/26-05-1959 fire-protection-control activities; Directive 98/8/EC biocidal products. Seveso III category: none.
15.2 Chemical safety assessment: No Chemical Safety Assessment carried out for the mixture.

SECTION 16: OTHER INFORMATION

Use limitation: Do not use for uses different from those identified; unevaluated risks may result.
Guidance basis: Guidance on preparation of Safety Data Sheets for lubricants, Industrial Group of Lube Companies (GAIL), aispec.federchimica.it.
Full text of phrases referred to in Section 3: H304 May be fatal if swallowed and enters airways. H332 Harmful if inhaled. H315 Causes skin irritation. H411 Toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H318 Causes serious eye damage. H360 May damage fertility or the unborn child. H314 Causes severe skin burns and eye damage. H302 Harmful if swallowed. H351 Suspected of causing cancer.
Regulatory basis: Regulation (EU) 2020/878. Manufacturer's source SDS dated 31/01/2023, version 1; source states it was prepared by a competent person who received appropriate training.
Bibliography: ECDIN - Environmental Chemicals Data and Information Network, Joint Research Centre, Commission of the European Communities; SAX's Dangerous Properties of Industrial Materials, 8th Ed., Van Nostrand Reinhold.
Disclaimer: Information is based on the state of knowledge at the date of issue, refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete for the specific intended use.
Abbreviations: ADR European Agreement for road transport of dangerous goods; ATE/ATEmix Acute Toxicity Estimate; CAS Chemical Abstracts Service; CLP Classification, Labeling, Packaging; DNEL Derived No Effect Level; EINECS European Inventory; GefStoffVO German Hazardous Substances Ordinance; GHS Globally Harmonized System; IATA/IATA-DGR air transport/Dangerous Goods Regulations; ICAO/ICAO-TI International Civil Aviation Organization/Technical Instructions; IMDG maritime dangerous goods; INCI cosmetic ingredients; KSt explosion coefficient; LC50 lethal concentration 50%; LD50 lethal dose 50%; PNEC Predicted No Effect Concentration; RID rail dangerous goods; STEL short-term exposure limit; STOT specific target organ toxicity; TLV threshold limit value; TWA time-weighted average; WGK German Water Hazard Class.