



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
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Page n. 1/12

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name **LHM PSA**

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

Intended use **LHM PSA**

Identified Uses	Industrial	Professional	Consumer
Functional Fluids			
Lubricants	✓	✓	✓

#### 1.3. Details of the supplier of the safety data sheet

Name **BREMBO S.P.A.**  
Full address **Via Brembo, 25**  
District and Country **24035, Curno (BG)**  
**Italia**

Tel. **+390356051111**

Fax **+390356052400**

e-mail address of the competent person  
responsible for the Safety Data Sheet

**laboratorio@gicarspa.com**

#### 1.4. Emergency telephone number

For urgent inquiries refer to **+390321772312 (business hours)**

#### Poison centres

- England 0845 46 47
- Wales 0845 46 47
- Scotland 08454 24 24 24
- Ireland 01 8092566 or 01 8379964
- USA 1-800-222-1222

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Aspiration hazard, category 1

H304

May be fatal if swallowed and enters airways.

Hazardous to the aquatic environment, chronic toxicity,  
category 3

H412

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:                    Danger

Hazard statements:

**H304**                                May be fatal if swallowed and enters airways.  
**H412**                                Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P101**                                If medical advice is needed, have product container or label at hand.  
**P102**                                Keep out of reach of children.  
**P301+P310**                        IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .  
**P331**                                Do NOT induce vomiting.  
**P405**                                Store locked up.  
**P501**                                Dispose of contents/container in accordance with local/regional/national/international regulations.  
**P273**                                Avoid release to the environment.

**Contains:**                        White mineral oil (petroleum)  
   Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients****3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based		



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 3/12

CAS 72623-86-0                       $60 \leq x < 100$                       Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP  
Regulation: L

EC 276-737-9

INDEX -

Reg. no. 01-2119474878-16-xxxx

#### White mineral oil (petroleum)

CAS 8042-47-5                       $10 \leq x < 30$                       Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP  
Regulation: L

EC 232-455-8

INDEX -

Reg. no. 01-2119487078-27-xxxx

#### Phenol, isopropylated, phosphate (3:1)

CAS 68937-41-7                       $0,1 \leq x < 1$                       Repr. 2 H361, STOT RE 2 H373, Aquatic Chronic 1 H410 M=1

EC 273-066-3

INDEX -

Reg. no. 01-2119535109-41-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

DMSO<3%

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 4/12

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE  
Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 5/12

## 8.1. Control parameters

Regulatory References:

EU OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

### White mineral oil (petroleum)

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
OEL	EU	5			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 6/12

Appearance	liquid
Colour	green
Odour	characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	< -50 °C
Initial boiling point	> 200 °C
Boiling range	Not available
Flash point	125 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	0,5 % (V/V)
Upper inflammability limit	5 % (V/V)
Lower explosive limit	0,5 % (V/V)
Upper explosive limit	5 % (V/V)
Vapour pressure	0,1 hPa
Vapour density	Not available
Relative density	Not available
Solubility	insoluble
Partition coefficient: n-octanol/water	> 3
Auto-ignition temperature	215 °C
Decomposition temperature	Not available
Viscosity	18 cSt @ 40 °C
Explosive properties	Not available
Oxidising properties	Not available

## 9.2. Other information

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 7/12

Avoid overheating.

## 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

## 10.6. Hazardous decomposition products

Carbon oxides, sulfur compounds and nitrogen compounds.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture:  
Not classified (no significant component)  
LD50 (Oral) of the mixture:  
Not classified (no significant component)  
LD50 (Dermal) of the mixture:  
Not classified (no significant component)

White mineral oil (petroleum)

LD50 (Oral) > 5000 mg/kg bw

LD50 (Dermal) > 2000 mg/kg bw



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 8/12

LC50 (Inhalation) > 5 mg/l/4h

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

LD50 (Oral) > 5000 mg/kg

LD50 (Dermal) > 2000 mg/kg

LC50 (Inhalation) > 2,5 mg/l

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

## RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

## ASPIRATION HAZARD

Toxic for aspiration

## **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### **12.1. Toxicity**





# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 9/12

White mineral oil (petroleum)

LC50 - for Fish > 100 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h

## 12.2. Persistence and degradability

Information not available

## 12.3. Bioaccumulative potential

Information not available

## 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## 12.6. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 10/12

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

#### Product

Point 3

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

#### Substances subject to authorisation (Annex XIV REACH)



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 11/12

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

White mineral oil (petroleum)

Phenol, isopropylated, phosphate (3:1)

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008



# BREMBO S.P.A. LHM PSA

Revision nr. 11  
Dated 01/08/2018  
First compilation  
Printed on 26/05/2020  
Page n. 12/12

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

#### Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 09 / 11 / 12 / 14 / 15.