

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : LUBRIFIANT LB5 VD Product code : ODIF-LB5VD.

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

1.3. Details of the supplier of the safety data sheet

Registered company name : ODIF. Address : 118, chemin du Sermoraz - BP 413.01704.BEYNOST Cedex.France. Telephone : +33 (0)4 78 55 07 43. Fax : +33 (0)4 72 25 84 63. Email: odif@odif.com http://www.odif.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

May produce an allergic reaction (EUH208).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02	
Signal Word :	
DANGER	
Additional labeling :	
EUH208	Contains AMIDES, TALL-OIL FATTY, N,N-DI-ME. May produce an allergic reaction.
Hazard statements :	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Precautionary statements	- General :
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
Precautionary statements	- Prevention :
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
Precautionary statements - S	torage :
P410 + P412	Protect from sunlight. Do no expose to temperatures exceedi

Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 106-97-8	GHS04, GHS02	С	50 <= x % < 69.2
EC: 203-448-7	Dgr	[1]	
REACH: 01-2119474691-32	Flam. Gas 1, H220		
	Press. Gas, H280		
BUTANE			
CAS: 64742-55-8	GHS08	L	10 <= x % < 15
EC: 265-158-7	Dgr		
REACH: 01-2119487077-29	Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM),			
HYDROTREATED LIGHT PARAFFINIC			
CAS: 74-98-6	GHS02	[1]	10 <= x % < 13.4
EC: 200-827-9	Dgr	[7]	
REACH: 01-2119486944-21	Flam. Gas 1, H220		
	Press. Gas, H280		
PROPANE			
CAS: 75-28-5	GHS02	С	2.5 <= x % < 2.2
EC: 200-857-2	Dgr	[1]	
REACH: 01-2119485395-27	Flam. Gas 1, H220		
	Press. Gas, H280		
ISOBUTANE			
CAS: 68308-74-7	GHS09, GHS07		0 <= x % < 0.2
EC: 269-665-4	Wng		
REACH: 01-2119983524-29	Skin Sens. 1, H317		
	Aquatic Chronic 3, H412		
AMIDES, TALL-OIL FATTY,	Aquatic Acute 1, H400		
N,N-DI-ME	M Acute = 1		

(Full text of H-phrases: see section 16)

Information on ingredients :

[7] Propellant gas

[1] Substance for which maximum workplace exposure limits are available.

Note L: The carcinogen classification does not apply because the substance contains less than 3 % w/w of dimethyl sulphoxide (DMSO) measured using the IP 346 method.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.

Wash the skin thoroughly with soap and water or a recognised cleaner.

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In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting. Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

- water with AFFF (Aqueous Film Forming Foam) additive

- halon
- foam
- multipurpose ABC powder

- BC powder

- carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

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Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
106-97-8	1000 ppm					
74-98-6	1000 ppm					
75-28-5	1000 ppm					
- Germany	/ - AGW (BAuA - TRG	S 900, 29/01/2018) :				
CAS	VME :	VME :	Excess	Notes		
106-97-8		1000 ppm 2400 mg/m ³		4(II)		
74-98-6		1000 ppm 1800 mg/m ³		4(II)		
75-28-5		1000 ppm 2400 mg/m ³		4(II)		
- Belgium	(Arrêté du 09/03/2014,	, 2014) :		I	I	
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
106-97-8	1000 ppm					
74-98-6	1000 ppm					
75-28-5	1000 ppm					
- France (INRS - ED984 :2016) :					
CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
106-97-8	800	1900	-	-	-	-

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- Switzerland (SUVAPRO 2017) :

emizenian						
CAS	VME	VLE	Valeur plafond	Notations		
106-97-8	800 ppm	3200 ppm				
	1900 mg/m ³	7200 mg/m ³				
74-98-6	1000 ppm	4000 ppm				
	1800 mg/m ³	7200 mg/m ³				
75-28-5	800 ppm	3200 ppm				
	1900 mg/m ³	7200 mg/m ³				
- UK / WEL	(Workplace exposure	limits, EH40/2005, 2	011) :			
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
106-97-8	600 ppm	750 ppm		Carc		
	1450 mg/m3	1810 mg/m3				

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS: 64742-55-8)

Final use:
Exposure method:
Potential health effects:
DNEL :

Workers. Inhalation. Long term local effects. 5.4 mg of substance/m3

Final use:

Exposure method: Potential health effects: DNEL :

Consumers. Inhalation.

Long term local effects. 1.2 mg of substance/m3

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

- Type of gloves recommended :
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)
- Recommended properties :
- Impervious gloves in accordance with standard EN374
- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.
	Spray.
Important health, safety and environmental information	
pH :	Not relevant.

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Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	<1
Water solubility :	Insoluble.
Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating

- heat

10.5. Incompatible materials

Keep away from :

- oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity :

ISOBUTANE (CAS: 75-28-5)	
Inhalation route (n/a) :	LC50 = 658 mg/l
	Species : Rat
	Duration of exposure : 4 h

BUTANE (CAS: 106-97-8) Inhalation route (n/a) :

LC50 = 658 mg/l Species : Rat Duration of exposure : 4 h

AMIDES, TALL-OIL FATTY, N,N-DI-ME (CAS: 68308-74-7) Oral route : LD50 :

LD50 > 5000 mg/kg Species : Rabbit

LD50 = 7128 mg/kg

	Species : Rabbit
DISTILLATES (PETROLEUM), HYDROTREATED LI	GHT PARAFFINIC (CAS: 64742-55-8)
Oral route :	LD50 > 5000 mg/kg
	Species : Rat
	OECD Guideline 420 (Acute Oral ToxicityFixed Dose Method)
Dermal route :	LD50 > 5000 mg/kg
	Species : Rabbit
	OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Dusts/mist) :	LC50 >= 5 mg/l
	Species : Rat
	OECD Guideline 403 (Acute Inhalation Toxicity)
	Duration of exposure : 4 h

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances		
AMIDES, TALL-OIL FATTY, N,N-DI-ME (CAS: 68308-74-7)		
Fish toxicity :	LC50 > 1 mg/l	
	Factor M = 1	
	Duration of exposure : 96 h	
	0,1 < NOEC <= 1 mg/l	
Crustacean toxicity :	EC50 = 0.75 mg/l	
	Factor M = 1	
	Duration of exposure : 48 h	
	NOEC = 0.75 mg/l	
	Duration of exposure : 21 days	
DISTILLATES (PETROLEUM), HYDROTREATED LIG	SHT PARAFFINIC (CAS: 64742-55-8)	
Fish toxicity :	LC50 > 100 mg/l	
	Species : Oncorhynchus mykiss	
	Duration of exposure : 96 h	
	OECD Guideline 203 (Fish, Acute Toxicity Test)	
Crustacean toxicity :	EC50 > 10000 mg/l	
	Species : Daphnia magna	
	Duration of exposure : 48 h	
	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)	
Algae toxicity :	ECr50 > 100 mg/l	
	Species : Pseudokirchnerella subcapitata	
	Duration of exposure : 72 h	
	OECD Guideline 201 (Alga, Growth Inhibition Test)	
BUTANE (CAS: 106-97-8)		
Fish toxicity :	LC50 = 24.11 mg/l	
	Duration of exposure : 96 h	
Crustacean toxicity :	EC50 = 14.22 mg/l	
	Species : Daphnia magna	

Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

Biodegradability:

AMIDES, TALL-OIL FATTY, N,N-DI-ME (CAS: 68308-74-7) Biodegradability : Rapidly degradable.

log Koe < 3.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS: 64742-55-8)

no degradability data is available, the substance is considered as not degrading quickly.

BUTANE (CAS: 106-97-8) Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

BUTANE (CAS: 106-97-8)
Octanol/water partition coefficient :

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 -IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :



14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327	E0	2	D
							344 625			
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	2	See SP63	-	See SP277	F-D,S-U	63 190	E0			
						277 327				
						344 381				
						959				
ΙΑΤΑ	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167	E0	
								A802		
	2.1	-	-	Y203	30 kg G	-	-	A145 A167	E0	
								A802		

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

- The following regulations have been used:
- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)
- Container information:

No data available.

- Particular provisions :
 - No data available.
- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :
 - WGK 1 : Slightly hazardous for water.
- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) : NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



- Swiss ordinance on the incentive tax on volatile organic compounds :

75-28-5	2-méthylpropane (alcool isobutylique, isobutane)
106-97-8	n-butane
74-98-6	propane
5.2 Chamical safety assessment	

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.				
H280	Contains gas under pressure; may explode if heated.				
H304	May be fatal if swallowed and enters airways.				
H317	May cause an allergic skin reaction.				
H400	Very toxic to aquatic life.				
H412	Harmful to aquatic life with long lasting effects.				

Abbreviations :

DNEL : Derived No-Effect Level

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS02 : Flame

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.