



# GRAISSE AU LITHIUM - NL-78500

## Safety Data Sheet

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

Revision date: 29/12/2015

Version: 1.0

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

#### 1.1. Product identifier

Product name : Lithium grease

Product code : NL-78500

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

##### 1.2.1. Relevant identified uses

Metalworking fluid - neat.

For specific application advice see appropriate Technical Data Sheet or consult our company representative.

##### 1.2.2. Uses advised against

No additional information available

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

Name : VAR.

Address: 19 AVENUE GUSTAVE EIFFEL

28630 GELLAINVILLE

FRANCE

Phone: +33 (0) 2 37 33 37 10

Fax: +33 (0) 2 37 33 37 17

contact@vartools.com

<http://www.vartools.com>

#### 1.4. Emergency telephone number

**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

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

Not classified

#### 2.2. Label elements

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

Precautionary statements (CLP)

: P280 - Wear protective gloves

EUH-statements

: EUH208 - Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl . May produce an allergic reaction

EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable



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### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	(EC no) 931-384-6 (REACH-no) 01-2119493620-38	0,1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	(EC no) 931-384-6 (REACH-no) 01-2119493620-38	( 50 <C <= 100) Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash skin with mild soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).
- First-aid measures after ingestion : Do NOT induce vomiting. IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : May cause headache, nausea and irritation of respiratory tract.
- Symptoms/injuries after skin contact : Prolonged or repeated contacts with the skin may cause dermatitis. May cause an allergic skin reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream. Do not use a solid water stream as it may scatter and spread fire.

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

- Hazardous decomposition products in case of fire : Toxic and irritating gases are released.

### 5.3. Advice for firefighters

- Firefighting instructions : Prevent fire-fighting water from entering environment. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe fumes from fires or vapours from decomposition.

## SECTION 6: Accidental release measures

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

- General measures : May be dangerously slippery if spilled.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Concerning personal protective equipment to use, see section 8.

#### 6.1.2. For emergency responders

- Protective equipment : Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Dike and contain spill. Stop leak, if possible without risk.



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

Methods for cleaning up : Collect all waste in suitable and labelled containers and dispose according to local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For disposal of residues refer to section 13 : Disposal considerations" .

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : May be dangerously slippery if spilled.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Avoid prolonged and repeated contact with skin.

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

Storage conditions : Keep away from food, drink and animal feeding stuffs. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep only in original container. Protect from moisture. Keep container closed when not in use.  
Heat and ignition sources : Keep away from heat sources, open flames, Sparks. - No smoking. Remove all sources of ignition.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2,6-di-tert-butyl-p-cresol (128-37-0)		
United Kingdom	Local name	2,6-Di-tert-butyl-p-cresol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>

### 8.2. Exposure controls

Hand protection : Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Nitrile rubber gloves. Time of penetration is to be checked with the glove producer  
Eye protection : Avoid contact with eyes  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment  
Other information : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state : Solid  
Appearance : Pasty.  
Colour : amber. Green. Blue.  
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 : No data available  
Flash point : > 60 °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



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Relative density	: No data available
Solubility	: Material insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: > 20,5 mm <sup>2</sup> /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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

LD50 oral rat	2000 mg/kg (OECD 401 method)
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

#### 3656 - Graisse 3656 (365602)

Viscosity, kinematic	> 20,5 mm <sup>2</sup> /s (40°C)
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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

LC50 fish 1	≈ 24 mg/l (Oncorhynchus mykiss, 96h) [OECD TG 203]
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EC50 Daphnia 1	≈ 91,4 mg/l (Daphnia magna, 48h) [OECD 202]
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EC50 other aquatic organisms 1	≈ 2433 mg/l (Activated Sludge, domestic, 3h) [OECD TG 209]
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EC50 Daphnia 2	0,91 mg/l (Daphnia magna, 21d) [OECD TG 211]
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ErC50 (algae)	> 15 mg/l (Selenastrum capricornutum, 96h) [OECD 201]
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EC50 96h algae (1)	6,4 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)
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### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

EC50 96h algae (2)	15 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)
NOEC (acute)	1,7 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)
NOEC chronic crustacea	0,12 mg/l (Daphnia magna, 21d) (OECD 211 method)
NOEC, algae, acute, Pseudokirchnerella subcapitata	3,3 mg/l (96 Hours, (OECD 201 method))

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

Log Pow	From < 0.30 to > 7.10 [OECD TG 117]
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#### 12.4. Mobility in soil

##### 3656 - Graisse 3656 (365602)

Ecology - soil	Product adsorbs onto the soil. Material insoluble in water.
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#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Do not discharge the product into the environment. Do not flush into surface water or sewer system

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Collect all waste in suitable and labelled containers and dispose according to local legislation.

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
No dangerous good in sense of transport regulations.(ADR, RID, IMDG, IATA )				
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

#### 14.6. Special precautions for user

##### - Overland transport

No data available

##### - Transport by sea

No data available

##### - Air transport

No data available



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### - Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

### - Rail transport

Carriage prohibited (RID) : No

### 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

#### 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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Sensitisation — Skin, Category 1
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction
EUH210	Safety data sheet available on request

*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*