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

1.1 Product identifier

Trade name: LAVA SYN 2T

**Description / Product Code:** FORMULA ID: 89

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

No further relevant information available.

Application of the substance / the mixture: Lubricant

1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** 

Company responsible for the placing on the market:

LPC S.A.

Megaridos Avenue 124

Aspropyrgos - Attica, 193 00

Tel.: 210 - 809 3900 Fax: 210 - 809 3999

e-mail: technical@cyclon.gr

1.4 Emergency telephone number:



European Emergency Tel.: 112

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#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms: Void

Signal word: Void

**Hazard statements:** 

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:** 

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

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#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**Description:** Mixture: consisting of the following components.

Ingredients according Regulation	(EU) 2020/878:	
EC number: 918-481-9 Reg.nr.: 01-2119457273-39-XXXX	L	≥10-<15%
	<ul> <li>♦ Asp. Tox. 1, H304, EUH066</li> <li>Mineral oil</li> <li>♦ Asp. Tox. 1, H304</li> </ul>	≥1-<2.5%
EC number: 949-727-3	Calcium branched alkyl phenate sulphide Aquatic Chronic 4, H413	≥0.5-<1%
CAS: 121158-58-5 EC number: 310-154-3 Index number: 604-092-00-9 Reg.nr.: 01-2119513207-49-XXXX	phenol, dodecyl-, branched  Repr. 1B, H360F; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	≥0.025-<0.25%
CAS: 72623-87-1 EINECS: 276-738-4 Index number: 649-483-00-5 Reg.nr.: 01-2119474889-13-XXXX	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≥80-<90%

#### **Additional information:**

The base oils of the product contain <3% DMSO extract (IP 346).

In accordance with Regulation (EC) No 1272/2008, Note L, reference IP 346/92: 'Dimethyl sulfoxide (DMSO) extraction method', it was determined that the base oils used in this preparation are not carcinogenic.

For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information:**

Take affected persons out into the fresh air.

Seek immediate medical advice.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

#### **After skin contact:**

Wash the skin immediately with soap and water.

If skin irritation continues, consult a doctor.

#### After eve contact:

Immediately rinse the eyes with plenty of water, alternately lifting the upper and lower eyelids.

Check and remove contact lenses if any.

Continue to rinse for at least 10 minutes.

Seek medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

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#### **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Consult the doctor immediately and show the label or this Safety Data Sheet.

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

No further relevant information available.

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

No special measures are required.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with foam.

For safety reasons unsuitable extinguishing agents: Strong water jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

#### **5.3** Advice for firefighters

#### **Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

#### **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### **SECTION 6: Accidental release measures**

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

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Ensure adequate ventilation.

For information on protective measures, see sections 7 and 8.

**6.1.1 For non-emergency personnel** Avoid contact with dripping or leaking material

### 6.1.2 For emergency responders

First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Treat recovered material as described in Chapter 13.

#### **6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Avoid inhaling vapors.

Ensure good ventilation.

Do not eat, drink or smoke during the usage of the product.

Wash contaminated clothing before reuse.

Wash hands before each break and after finishing work.

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Put on appropriate personal protective equipment (see section 8 of SDS).

Information about fire - and explosion protection:

Keep away from heat, sparks, open flames and hot surfaces.

7.2 Conditions for safe storage, including any incompatibilities

**Storage:** Store in cool, dry conditions in well sealed receptacles.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions:

Protect from heat and direct sunlight.

Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

## Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### **DNELs**

(CAS: 121158-58-5) phenol, dodecyl, branched

Employees:

Inhalation - Long-term systemic effect: 1,762 mg/m³ Inhalation - Short-term local effect: 44,18 mg/m³ Skin - Long-term systemic effect: 0.25 mg/kg bw/d Skin - Short-term local effect: 166 mg/kg bw/d

Consumers:

Inhalation - Long-term systemic effect: 0.79 mg/m³ Inhalation - Short-term local effect: 13,26 mg/m³ Skin - Long-term systemic effect: 0,075 mg/kg bw/d Skin - Short-term local effect: 50 mg/kg bw/d Oral - Long-term systemic effect: 0,075 mg/kg bw/d Oral - Short-term local effect: 1,26 mg/kg bw/d

(CAS: 72623-87-1) Lubricating oils (petroleum), C20-50, hydrotreated neutral oil base

**Employees:** 

Inhalation, long-term exposure, systemic effects: 2,73 mg/m<sup>3</sup> Inhalation, long-term exposure, local effects: 5,58 mg/m<sup>3</sup> dermal, long-term exposure, systemic effects: 0,97 mg/kg bw/d

Consumers:

Oral, long-term exposure, systemic effects: 0.74 mg/kg bw/d Inhalation, long-term exposure, local effects: 1,19 mg/m³

PNECs

(CAS: 121158-58-5) phenol, dodecyl, branched

Fresh water: 0,074 µg/L Sea water: 0,007 µg/L STP: 100 µg/L

Freshwater sediment: 0,226 mg/kg sediment dw Marine water sediment: 0,027 mg/kg sediment dw

Soil: 0,118 mg/kg soil dw

Secondary poisoning: 4 mg/kg food

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(CAS: 72623-87-1) Lubricating oils (petroleum), C20-50, hydrotreated neutral oil base Secondary poisoning: 9,33 mg/kg food

#### 8.2 Exposure controls

**8.2.1. Appropriate engineering controls** Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment General protective and hygienic measures:

Avoid contact with skin and eyes.

Do not breathe vapours or mists.

Immediately remove all soiled and contaminated clothing.

Wash contaminated clothes before reusing them.

Wash your hands before breaks and after use.

Do not eat, drink or smoke while using the product.

Keep away from foodstuffs, beverages and feed.

#### **Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

#### **Hand protection**



Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves** 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye/face protection



Goggles recommended during refilling

#### **Body protection:**



Protective work clothing

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Environmental exposure controls Prevent enter of the product into drains, surface and groundwater and soil.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information** 

Physical state Liquid Colour: Chestnut

**Odour:** Characteristic odour of lubricating oil.

Odour threshold: Not determined Melting point/freezing point: Not determined

Boiling point or initial boiling point and boiling

range Not determined Flammability Not applicable

Lower and upper explosion limit

Lower: Not determined Upper: Not determined

Flash point: 100 °C

Not Flammable

Auto-ignition temperature:Not determinedDecomposition temperature:Not determinedpHNot determined

**Viscosity:** 

Kinematic viscosity at 40 °C 61 cSt

**Dynamic:** Not determined

**Solubility** 

water:
Partition coefficient n-octanol/water (log value)
Not determined
Not determined
Not determined

Density and/or relative density

Density at 20 °C:0.872 g/cm³Relative densityNot determinedVapour densityNot determined

9.2 Other information

**Appearance:** 

Form: Liquid

Important information on protection of health and

environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Cloud point / clarification point:** 

Oxidising properties Not oxidising
Evaporation rate Not determined

Information with regard to physical hazard classes

ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoid

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Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

#### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability

Thermal decomposition / conditions to be avoided Stable at environment temperature.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5** Incompatible materials No further relevant information available.
- 10.6 Hazardous decomposition products No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

(CAS: 121158-58-5) phenol, dodecyl, branched.

LD50 - Mouth - Rat: 2100 mg/kg bw, Method:OECD 401.

LD50 - Skin - Rat: 15000 mg/kg bw, Method:OECD 402.

NOAEL (Mouth, Rat, 90 days):15 mg/kg bw/day, Method: (OECD 416).

NOAEL (Subacute, Oral, Animal/male, 28 days): 60 mg/kg bw Method:(OECD 407).

(CAS: 72623-87-1) Lubricating oils (petroleum), C20-50, hydrotreated on the basis of neutral oils

LD50, oral, rat: > 5000 mg/kg LD50, dermal, rabbit: > 2000 mg/kg

LC50 (4h), inhalation, rat:  $\geq 5.53$  mg/l (dust/droplets)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	LD50	>5,000 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>5,000 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4 h (vapour)	>5,000 mg/l (rat) (Acute Inhalation Toxicity)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

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**Reproductive toxicity** Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:

Repeated dose toxicity Based on available data, the classification criteria are not met.

11.2 Information on other hazards

#### **Endocrine disrupting properties**

CAS: 121158-58-5 phenol, dodecyl-, branched

List I

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Aquatic toxicity:**

(CAS: 121158-58-5) phenol, dodecyl, branched

Toxicity to fish

LC50 (Fathead Minnow, 4 d): 40 mg/l

Toxicity to aquatic invertebrates

EC50 (Water flea (Daphnia magna), 2 d): 0,037 mg/l

EC50 (Shrimp (Mysidopsis Bahia), 4 d): >0,58 mg/l

EC50 (Water flea (Daphnia magna), 21 d): 0,0079 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 0,0037 mg/l

Toxicity to aquatic plants

EC50 (Green algae (Scenedesmus quadricauda), 72 h): 0,36 mg/l

Toxicity to micro-organisms

EC50 (Sludge, 0.1 d): >1000 mg/l

(CAS: 72623-87-1) Lubricating oils (petroleum), C20-50, hydrotreated on the basis of neutral oils

Toxicity to fish

LL50 (Pimephales promelas): > 100 mg/l

Method: OECD 203

Toxicity to laurel and other aquatic invertebrates EL50 (48h) (Daphnia magna): > 10 000 mg/l

Method: OECD 202

NOEL (48h) (Daphnia magna): > 10 000 mg/l

Method: OECD 202 Daphnia toxicity

NOEC (72h) (algae): ≥ 100 mg/l

### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EC50 (72h) 1,000 mg/l (Pseudokirchneriella subcapitata)

EC50 (48h) 1,000 mg/l (Daphnia magna)

LC50 (96h) 1,000 mg/l (Oncorhynchus mykiss)

- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

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**12.7 Other adverse effects Remark:** Harmful to fish

Additional ecological information:

**General notes:** 

The product contains materials that are harmful to the environment.

Harmful to aquatic organisms

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

#### European waste catalogue

HP14 Ecotoxic

**Uncleaned packaging:** 

**Recommendation:** Disposal must be made according to official regulations.

4.1 UN number or ID number	Unenforceable. Not classified as dangerous for
	transport.
ADR, IMDG, IATA	Void
14.2 UN proper shipping name	Void
ADR	Void
IMDG, IATA	Void
14.3 Transport hazard class(es)	Void
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	Void
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.

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14.7 Maritime transport in bulk according to IMO

**instruments** Not applicable.

UN "Model Regulation": Void

#### **SECTION 15: Regulatory information**

 $\textbf{15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture} \ REACH \ Regulation \ 1907/2006/EC$ 

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as ammended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended Note L applies. The DMSO content is less than 3% (IP 346).

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

#### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

#### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

#### **National regulations:**

Other regulations, limitations and prohibitive regulations

## Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

May be fatal if swallowed and enters airways. H304

H314 Causes severe skin burns and eye damage.

Causes serious eye damage. H318

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

## Classification according to Regulation (EC) No 1272/2008

Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### **Department issuing SDS:**



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#### Version number of previous version: 1

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1C: Skin corrosion/irritation - Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Repr. 1B: Reproductive toxicity - Category 1B

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

#### \* Data compared to the previous version altered.