

Safety Data Sheet dated 30/10/2020

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Print date: 30/10/2020

Version 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND COMPANY/ORGANIZATION

1.1 Product identification

Product name: GRAN PRIX LIQUIDO LAVAVETRO -20

Product code: 38161

1.2 Recommended uses of the substance or mixture and not recommended uses

Windscreen cleaning liquid

1.3 Information on the supplier of the safety data sheet

Company name: Lampa S.p.A.

Address: Via G. Rossa, 53,55 (z.i. Gerbolina)

46019 Viadana (MN)

Telephone number: +39 0375 820700
Fax: +39 0375 820800
Competent person responsible for the SDS: info@lampa.it

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù" - Roma Tel. +39 06 68593726 Az. Osp. Univ. Foggia Tel. +39 0881 732326 Az. Osp. "A. Cardarelli" - Napoli Tel. +39 081 7472870 CAV Policlinico "Umberto I" - Roma Tel. +39 06 49978000 CAV Policlinico "A. Gemelli" - Roma Tel. +39 06 3054343 Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze Tel. +39 055 7947819 CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. +39 0382 24444 Osp. Niguarda Ca' Granda – Milano Tel. +39 02 66101029 Tel. +39 800 883300 Azienda Ospedaliera Papa Giovanni XXII – Bergamo

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is dangerous according to Regulation (EC) 1272/2008 and subsequent amendments.

EC Regulation criteria 1272/2008 (CLP):

Flam. Liq. 3 H226

2.2 Elements in the label



Pictograms:

Statement: Warning

H Phrases: H226 Flammable liquid and vapour.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



P370 + P378 In case of fire: Use water to extinguish.

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Regulation (EC) No 648/2004 Contains: non-ionic surfactants <5% Perfumes, Geraniol,, Limonene,, Linalool.

2.3 Other hazards

vPvB Substances: None - PBT Substances: None

SECTION 3: COMPOSITION / INFORMATION ON THE INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	Name	Weight (%)	Classification 1272/2008 (CLP)	
1.64-17-5 2.200-578-6 3.603-002-00-5 4.01-2119457610-43-XXXX	ethanol	5-10	Flam. Liq. 2, H225	
1.107-21-1 2.203-473-3 3.603-027-00-1 4.01-2119456816-28-XXXX	ethylene glycol	<5	Acute Tox. 4, H302	

The full text of the H phrases are displayed in section 16 of the safety data sheet

SECTION 4: FIRST AID MEASURES

4.1 Description of the first aid measures

In case of skin contact: Take off contaminated clothing. Take a shower immediately. Call a doctor immediately.

Wash the contaminated garments before reusing them.

In case of eyes contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes and get medical attention.

In case of ingestion: Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head

should be kept low so that vomit does not enter the lungs. Get medical attention.

In case of inhalation: Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Get medical attention if

any discomfort continues.

4.2 Primary symptoms and effects, both acute and delayed

See Section 11

4.3 Indication that prompt medical attention and special treatments are needed

Treat symptomatically.

SECTION 5: FIRE PREVENTION MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:



Do not use jets of water as it may disperse or spread the fire.

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5.2 Special hazards derived from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

Avoid contamination with oxidizing agents (nitrates, oxidizing acids, chlorinated bleaches, chlorine, etc.), as it can cause ignition.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

5.3 Recommendations for fire fighting personnel

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). Avoid contamination with oxidizing agents (nitrates, oxidizing acids, chlorinated bleaches, chlorine, etc.), as it can cause ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, personal protection equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation

6.2 Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and cleaning

Absorb spillage with non-combustible, absorbent material. Transfer to covered steel drums for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned.

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Recommended storage temperature: 20 °C



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7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

Keep away from / sparks / open flames / heated surfaces.

Store in a well ventilated place, away from direct sunlight and at temperatures below 50 ° C / 122 ° F.

7.3 Specific final uses

Information not available

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

ethanol

WEL Lungo termine: 1920 mg/m³, 1000 ppm

ethanediol

WEL (Great Britain)

Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm

Sk *particulate **vapour

IOELV (EU)

Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm

Skin

Derived No effect level (DNEL)

CAS: 64-17-5 ethanol

Oral DNFI 87 mg/kg (consumer) (long-term exposure - systemic effects)

206 mg/kg bw/day (consumer) (long-term exposure - systemic effects) Dermal DNEL

343 mg/kg bw/day (worker) (lon-term exposure - systemic effects)

Inhalation **DNEL** 950 mg/m³ (consumer) (acute short-tem exposure - local effects)

1.900 mg/m³ (worker) (acute short-tem exposure - local effects)

114 mg/m³ (consumer) (long-term exposure - systemic effects) **DNEL**

950 mg/m³ (worker) (long-term exposure - systemic effects)

CAS: 107-21-1 ethylene glycol

Dermal DNEL 53 mg/kg bw/day (consumer) (long term (chronic) / systemic)

106 mg/kg bw/day (worker) (long term (chronic) / systemic)

Inhalation **DNEL** 7 mg/m³ (consumer) (long term (chronic) / local)

35 mg/m³ (worker) (long term (chronic) / local)

Predicted No Effect Concentration (PNEC) Ethanol

0.96 mg/L (Fresh water)

0.79 mg/L (Water - Intermittent release)

2.75 mg/L (Marine water)

3.6 mg/kg sediment dw (Sediment (Fresh water))

0.63 mg/kg soil dw (Soil)

^{*} Values for General Population



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580 mg/L (STP)

ethylene glycol

10 mg/L (Fresh water)

1 mg/L (Water - Intermittent release)

10 mg/L (Marine water)

37 mg/kg sediment dw (Sediment (Fresh water))

3.7 mg/kg sediment dw (Sedimenti (Marine))

1.53 mg/kg soil dw (Soil)

199.5 mg/L (STP)

Engineering controls

Ensure adequate ventilation, especially in closed areas.

Make sure the eye washes and showers are close to the workplace.

Use anti-exposure equipment

Provide an emergency exit.

8.2 Exposure controls

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

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and type of use

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 A 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.

Eye protection: Wear airtight protective goggles (see standard EN 166).

Skin protection Wear category II professional long-sleeved overalls and safety footwear (see Directive

89/686/EEC and standard EN ISO 20344). Wash body with soap and water after

removing protective clothing.

SECTION 9: INFORMATION ON THE ESSENTIAL PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the essential physical and chemical properties

Appearance:	Liquid
Colour:	Blue
Odour:	Characteristic
Olfactory threshold:	N.A.
pH:	7
Melting/freezing point:	-20 °C
Initial boiling point and boiling range:	N.A.



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> 50 °C
N.A.
Soluble
N.A.

9.2 Other information

No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known.

ETHYLENE GLYCOL

In the air it absorbs moisture. It decomposes at temperatures above 200 ° C / 392 ° F.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of dangerous reactions

Develops readily flammable gases/fumes.

ETHANOL

Risk of explosion on contact with: alkali metals, alkaline oxides, calcium hypochlorite, sulfur monofluoride, acetic anhydride, acids, peroxide concentrated hydrogen, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, nitrate silver, ammonia, silver oxide, ammonia, strong oxidizing agents, nitrogen dioxide May react dangerously with: bromine acetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, trioxide phosphorus, black platinum, zirconium chloride (IV), zirconium iodide (IV) Forms explosive mixtures with: air. ETHYLENE GLYCOL

Risk of explosion on contact with: perchloric acid May react dangerously with: chlorosulfuric acid, sodium hydroxide, acid sulfuric, phosphorus pentasulfide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium, aluminum Forms explosive mixtures with: air.

10.4 Conditions to avoid

Avoid overheating.

Avoid exposure to: light, heat sources, open flames.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be formed. ETHYLENE GLYCOL

It can develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the mixture: N.A.

Toxicological information of the main substances found in the mixture:

ethanol

TOXICITY

Oral (guinea pig) LD50: 5560 mg/kg Oral (mouse) LD50: 3450 mg/kg Oral (rat) LD50: 7060 mg/kg Oral (rabbit) LD50: 6300 mg/kg Dermal (rat) LD50: >2000 mg/kg Inalazione (rat) LC50/4 day: 20000 mg/l

ethylene glycol TOXICITY

Oral (rat) LD50: 7712 mg/kg

Dermal (mouse) LD50: >>3500 mg/kg Inhalation (rat) LC50/6 h: 2.5 mg/l

Unless otherwise specified, the data required by Regulation (EU) 2015/830 indicated below are to be understood N.A.

- (a) acute toxicity;
- (b) skin corrosion/irritation;
- (c) serious eye damage/irritation;
- (d) respiratory or skin sensitisation;
- (e) germ cell mutagenicity;
- (f) carcinogenicity;

ETHYLENE GLYCOL

Available studies have not shown carcinogenic potential. In a 2-year carcinogenicity study conducted by the US National Toxicology Program (NTP), in which ethyleneglycol was administered in feed, "no evidence of carcinogenic activity" was observed in male and female B6C3F1 mice. (NTP, 1993).

- (g) reproductive toxicity;
- (h) STOT-single exposure;
- (i) STOT-repeated exposure;
- (j) aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Do not release into the environment. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Endpoint ethanol	Test duration (hr)	Species	Value
LC50	48h	Leuciscus idus	8140 mg/l
LC50	24h	Daphnia magna	>100 mg/l
EC5	16h	Pseudomonas putida	6500 mg/l
EC50	48h	Daphnia magna	9268 mg/l
ethylene glycol			
LC50	96h	Pimephales promelas	72860 mg/l
EC20		fanghi attivi	>1995 mg/l



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EC50 48h Daphnia magna >100 mg/l EC50 96h P. subcapitata 6500-13000 mg/l

12.2 Persistence and degradability

ETHANOL

Solubility in water 1000 - 10000 mg / I

Quickly degradable

ETHYLENE GLYCOL

Solubility in water 1000 - 10000 mg / I

Quickly degradable

12.3 Bioaccumulation potential

ETHANOL

Partition coefficient: n-octanol / water -0.35

ETHYLENE GLYCOL

Partition coefficient: n-octanol / water -1.36

12.4 Mobility in the soil

IngredientMobilityethanolHIGH (KOC = 1)ethylene glycolHIGH (KOC = 1)

12.5 Results of PBT and vPvB evaluation

vPvB Substances: None - PBT Substances: None

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

European waste catalogue

20 01 29* detergents containing hazardous substances

Uncleaned packaging:

15 01 10*: packaging containing residues of or contaminated by dangerous substances

Recommendation:

Packaging may be reused or recycled after cleaning.

15 01 02: plastic packaging

Recommended cleansing agents: Water

SECTION 14: INFORMATION ON TRANSPORT

14.1 UN number.



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According to Reg. (EC) 878/2020 ADR / RID, IMDG, IATA: 1170

14.2 UN proper shipping name.

ADR / RID: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IMDG: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IATA: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es).



ADR / RID: Class: 3 Label: 3 IMDG: Class: 3 Label: 3 IATA: Class: 3 Label: 3

14.4 Packing group.

Packing group (UN): III

14.5 Environmental hazards.

ADR / RID: NO IMDG: NO IATA: NO

14.6 Special precautions for user.

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)

Special Provision: -

IMDG: EMS: F-E, S-D Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 364

Pass.: Maximum quantity: 5 L Packaging instructions: 353

Special Instructions: A3, A58, A180

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

N.A.

SECTION 15: REGULATORY INFORMATION

15.1 Specific health safety and environment standards and legislation for the substance or mixture

Seveso category

P5c

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

Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

None.

Substances subject to authorisarion (Annex XIV REACH).

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.

15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16: OTHER INFORMATION

Full text of H phrases referred to in Section 2 and 3:

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

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
- 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

Regulation (EU) 1907/2006 of the European Parliament (REACH)

Regulation (EU) 1272/2008 of the European Parliament (CLP)

Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)

Regulation (EU) 2015/830 of the European Parliament

Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)

Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)

Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)

Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)

Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)

Regulation (EU) 1272/2015 of the European Parliament (VII Atp. CLP)

Regulation (EU) 918/2016 of the European Parliament (VIII Atp. CLP) $\,$

Regulation (EU) 1179/2016 of the European Parliament (IX Atp. CLP)

Regulation (EU) 1221/2015 of the European Parliament (X Atp. CLP)

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Regulation (UE) 2020/878 of the European Parliament

- 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
- ECHA website

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.

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