

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

NAME OF THE PRODUCT	G10 Adhesive grease spray 500 ml
CODE	110029
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
ADDRESS	c/ Thomas Edison 16, Apartado de correos 95
CITY	08430 La Roca del Vallés (Barcelona)
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WEB	www.bossauto.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

A. Regulation n°1272/2008 (CLP)



GHS02 Flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2. Label elements

A. Labelling according to Regulation (EC) No 1272/2008

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

• **Hazard pictograms**



GHS02 GHS07 GHS09

• **Signal word**

Danger

• **Hazardous elements to be indicated in the label**

Pentane

• **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H411 Toxic 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.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breath spray.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 Do not induce vomit.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 Store in a well-ventilated place.

P501 Dispose of contents/container to according to local/regional/national/international regulation.

• **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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Description: Active substance with propellant.

CAS: 109-66-0	Pentane	25-<50%
EINECS: 203-692-4	Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic	
Reg. Nr.:	Chronic 2, H411; STOT SE 3, H336	
01-2119459286-30		

CAS: 106-97-8 EINECS: 203-448-7 Reg. Nr.: 01-2119474691-32	Butane (1,3% butadiene <0,1%) Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg. Nr.: 01-2119486944-21	Propane Flam. Gas 1, H220; Press. Gas, H280	10-<25%
921-024-6 Reg.nr.: 01- 2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2,5-<25%

Additional information:

4. FIRST AID MEASURES

4.1. Description of first aid measures

A. After inhalation

Supply fresh air. Consult a doctor, in case of complaints.

B. After skin contact

Generally, the product does not irritate the skin.

C. After eye contact

Rinse opened eye for several minutes under running water.

D. After swallowing

Do not induce vomiting and seek medical attention immediately.

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 further relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: carbon dioxide, water haze, fire-fighting powder, alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards caused by the substance, its products of combustion or resulting gases

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment: Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.

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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

A. Fire-and explosion prevention

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for a safety storage, including incompatibilities

A. Storage

- **Requirements to be met by storerooms and receptacles**

Store in a cool place.
Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility**

Observe official regulations on storing packagings with pressurized containers.

- **Further information about storage conditions**

Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

7.3. Specific end uses

No further information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1. Control parameters

A. Ingredients with admissible limit values to be controlled

109-66-0 Pentane	
LEP	Long-term value: 3000 mg/m ³ , 1000 ppm VLI
106-97-8 butane (1,3 < 0.1% butadiene)	
LEP	Long-term value: 1000 ppm
74-98-6 propane	
LEP	Long-term value: 1000 ppm

B. DNEL

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer) 773 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	608 mg/m ³ (Consumer) 2035 mg/m ³ (Worker)
109-66-0 pentane		
Oral	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	214 mg/kg bw/day (Consumer) 432 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	643 mg/m ³ (Consumer) 3000 mg/m ³ (Worker)

Additional information: the lists valid during the making were used as basis.

8.2. Exposure control

A. Personal protective equipment

- **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols.

- **Respiratory protection**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

- **Protection of hands**

The glove material has to be impermeable and resistant to the product/substance/preparation. In the absence of specific tests, no material can be recommended for protection/preparation/product mix chemicals gloves.

Wear gloves for the protection against chemicals according to EN 374



Protective gloves/ solvent resistant gloves

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 preparation 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.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

• Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection**

Safety glasses (EN-166)



Tightly sealed goggles.

• **Body protection**

Use protective suit. (EN-13034/6)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic physical and chemical properties

Form	Aerosol
Colour	According to product specification
Odour	Characteristic
Odour threshold	Undetermined
pH value	Undetermined
Melting point/melting range	Undetermined
Boiling point/boiling range	-44°C
Flash point	-97°C
Flammability (solid, gas)	Not applicable
Self-ignition	>200°C
Decomposition	Undetermined
Self-ignition:	This product is no self-igniting.
Danger of explosion	This product is no explosive; however, may form flammable/explosive vapour-air mixture.
Lower explosive limit	0,8 Vo. %
Upper explosive limit	10,9%
Vapour pressure at 20°C	8300 hPa
Density at 20°C	0,658 g/cm ³

Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility/miscibility in water at 20°C	Little or non-miscible
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic at 20°C	Not determined
Kinematic	Not determined
Solvent content	
Organic solvents	70,0%

9.2. Additional information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

10.3. Dangerous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Dangerous decomposition products

No dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological

A. Acute toxicity

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

LD/LC50 values relevant for classification:		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalation	LC50/4h	>25mg/l (rat)

B. Primary irritant effect

- **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.

C. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity**

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

- **Carcinogenicity**

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

- **Reproductive toxicity**

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

- **STOT-single exposure**

May cause drowsiness or dizziness.

- **STOT-repeated exposure**

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

- **Aspiration hazard**

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

A. Aquatic toxicity

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
EL50 (72h)	30-100 mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	3 mg/l (Dm)
LL50 (96h)	11,4 mg/l (Oncorhynchus mykiss (96h))
LOEC (21 days)	0,32 mg/l (Dm)
NOEC (21 days)	0,17 mg/l (Dm)
NOELR (72h)	3 mg/l (Pseudokirchneriella subcapitata)
109-66-0 pentane	
EC50 (72h)	10,7 mg/l (Pseudokirchneriella subcapitata)
EC50 (48h)	2,7 mg/l (Dm)
LC50 (96h)	4,26 mg/l (Oncorhynchus mykiss (96h))
NOEC (72h)	7,51 mg/l (Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulation potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

A. Ecotoxicological effects

Notes: Toxic for fish.

B. Additional environmental directions

General directions:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Small quantities leak into the ground poses a danger to drinking water.

Discharge to surface waters, it is also toxic to fish and plankton.

Toxic to aquatic organisms

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation: must not be disposed together with household garbage. Do not allow product to reach sewage system.

13.2. Uncleansed packages

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1. UN-Number

ADR, IMDG, IATA: UN1950

14.2. UN proper shipping name

ADR, ADN: 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

IMDG: AEROSOLS (PENTANES, Naphtha (petroleum) hydrotreated light), MARINE POLLUTANT

IATA: AEROSOLS, Flammable

14.3. Transport hazard class

ADR



Class: 2 5F Gases

Label: 2.1

ADN

ADN/R Class 2 5F

IMDG



Class: 2.1

Label: 2.1

IATA



Class: 2.1
Label: 2.1

14.4. Packaging group

ADR, IMDG, IATA: Void

14.5. Environmental hazards

Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene, Pentane

- Marine Pollutant: Yes
Symbol (fish and tree)
- Special marking (ADR): Symbol (fish and tree)

14.6. Special precautions for users

Warning: Gases

Kemler number: -

EMS number: F-D, S-U

- Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
- Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

A. Transport/additional data

ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code E0. Not permitted as excepted quantity.

Tunnel restriction code: D

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code E0. Not permitted as excepted quantity.

B. UN "Model Regulation"

UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

15. REGULATORY INFORMATION

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

A. Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P3a FLAMMABLE AEROSOLS

E2 Hazardous for the aquatic environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (CE) n°1907/2006 ANNEX XVII: restrictions: 28,29

B. National regulations

Technical instructions (air):

Class Share in %

NK 50-<75

VOC-CH: 70,00%

VOC-EU: 460,6 g/l

Danish MAL code: 5-3

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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**

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic for aquatic organisms, with long-term harmful effects.

• **Abbreviations and acronyms**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport 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 Harmonized 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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 1: Flammable liquids, Hazard Category 1

Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2