

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

<b>NAME OF THE PRODUCT</b>	S500 Magic Foam spray glass cleaner 500 ml
<b>CODE</b>	110001
<b>DISTRIBUTOR</b>	BOSSAUTO INNOVA, S.A.
<b>ADDRESS</b>	c/ Thomas Edison 16, Apartado de correos 95
<b>CITY</b>	08430 La Roca del Vallés (Barcelona)
<b>TEL</b>	+ 34 93 860 49 23
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<b>WEB</b>	<a href="http://www.bossauto.com">www.bossauto.com</a>

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### A. Regulation n°1272/2008 (CLP)



GHS02 Flame

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

#### 2.2. Label elements

##### A. CLP Regulation (EC) n°1272/2008

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

- Hazard pictograms**



GHS02

- Warning word**

Danger

- Hazard statements**

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

- 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 breathe aerosols.
- P211 Do not spray to an open flame or other ignition source.
- P271 Use only outdoors or in a well-ventilated area.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 in accordance with local/regional/national/international regulations.

### 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

Dangerous components		
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01- 2119475108-36	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2,5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01- 2119474691-32	Butane (1,3 < 0.1% butadiene) Flam. Gas 1, H220; Press. Gas, H280	2,5-<10%
CAS: 1336-21-6 EINECS: 215-647-6	ammonia Skin Corr. 1B, H314; Aquatic Acute 1, H400	0.1-<1%

· Regulation (EC) n° 648/2004 concerning detergents/Labeling  
 Aliphatic hydrocarbons: 5-15%

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### A. After inhalation

Supply fresh air; consult 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. If symptoms persist, consult a doctor.

#### D. After swallowing

Do not induce vomiting; call for medical help 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**

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#### **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 arising from the substance or mixture**

No further relevant information available.

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

Special protective equipment: No special measures required. Mouth respiratory protective device.

### **6. ACCIDENTAL RELEASE MEASURES**

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#### **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**

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#### **7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

#### **A. Information about fire - and explosion protection**

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 location.

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 relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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· Additional information about design of technical facilities:

No further data; see item 7.

### 8.1. Control parameters

#### A. Ingredients with limit values that require monitoring at the workplace

111-76-2 2-butoxyethanol	
LEP	Short-term value: 245 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm dermal, VLI, VLB
106-97-8 butane (1,3 Butadiene <0,1%)	
LEP	Long-term value: 1000 ppm

#### B. Ingredients with biological limit values

111-76-2 2-butoxyethanol	
BMGV	200 mg/mg creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid

## 8.2. Exposure control

### A. Personal protective equipment

- General protective and hygienic measures**

Wash hands before breaks and at the end of work.

- 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**

Use protective gloves against chemical ingredients according to EN374 regulation.



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:  $\geq 0.5$  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	10
Melting point/melting range	Undetermined
Boiling point/boiling range	0°C
Flash point	-60°C
Flammability (solid, gas)	Not applicable
Self-ignition	240°C
Decomposition	Undetermined

Self-ignition	This product is no self-igniting.
Danger of explosion	This product is no explosive; however, formation of explosive air/vapour mixtures are possible.
Lower explosive limit	1,1 Vo. %
Upper explosive limit	10,6%
Vapour pressure at 20°C	23 hPa
Density at 20°C	0,96 g/cm <sup>3</sup>
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility/miscibility in water at 20°C	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic at 20°C	Not determined
Kinematic	Not determined
Solvent content	
Organic solvents	10.7%
Solids content	88.4%

## 9.2. Additional information

No further relevant data available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

Thermal decomposition/conditions to avoid: 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

LD/LC50 values (Lethal dose/lethal dose=50%) relevant for classification

111-76-2 2-butoxyethanol		
Oral	LD50	300 mg/kg (rabbit)
Dermal	LD50	470 mg/kg (rat) 2000 mg/kg (rabbit)

**A. 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.

**B. 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**

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.

**12. ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

**A. Aquatic toxicity**

111-76-2 2-butoxyethanol	
LC50	1490 mg/l (Lepomis macrochirus (96 h))

**12.2. Persistence and degradability**

Easily biodegradable.

**12.3. Bioaccumulation potential**

No further relevant information available.

**12.4. Mobility in soil**

No further relevant information available.

**A. Ecotoxicological effects**

Notes: Harmful to fish.

**B. Additional environmental directions**

· General directions:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6. Other adverse effects

No further information available.

## 13. DISPOSAL CONSIDERATIONS

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### 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

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### 14.1. UN-Number

ADR, IMDG, IATA: UN1950

### 14.2. UN proper shipping name

ADR: UN1950 AEROSOLS

IMDG: AEROSOLS

IATA: AEROSOLS, Flammable

### 14.3. Transport hazard class

ADR



Class: 2 5F Gases

Label: 2.1

ADN

Class: 2 5F

IMDG, IATA



Class: 2.1

Label: 2.1

### 14.4. Packaging group

ADR, IMDG, IATA: Void

### 14.5. Environmental hazards

Marine Pollutant: No

### 14.6. Special precautions for users

- Warning: Gases



- Kemler number: -
- EMS number: F-D,S-U
- Segregation group: alkalis
- 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 allowed as excepted quantity

Tunnel restriction code: D

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ) Code: E0

Not allowed as excepted quantity

UN "Model Regulation": UN1950 AEROSOLS, 2.1

### 15. REGULATORY INFORMATION

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#### 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
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

##### B. Directive 1907/2006

ANNEX XVII restrictions 28,29

· National dispositions

Class Share in %

Wasser 75-<100

NK 10-<25

· VOC-CH: 10,70%

· VOC-EU: 102,7 g/l

· Danish MAL code: 3-1

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## 16. OTHER INFORMATION

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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.

### A. Relevant phrases

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage  
H315 Causes skin irritation.  
H319 Causes severe eye damage  
H332 Harmful if inhaled.  
H400 Very toxic to aquatic life.

### B. 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 Organisation  
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 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)  
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
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  
vPvB: very Persistent and very Bioaccumulative  
SVHC: Substances of Very High Concern  
Flam. Gas 1: Flammable gases, Hazard Category 1  
Aerosol 1: Flammable aerosols, Hazard Category 1  
Press. Gas C: Gases under pressure: Compressed gas  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

The statements made here should describe the product with regard to the necessary safety precautions – they are not meant to guarantee definite characteristics – but they are based on our present up-to-date knowledge. No responsibility