

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

NAME OF THE PRODUCT	Heat-resistant 600°C spray 400 ml
CODE	110100 (Black)
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
ADDRESS	c/ Thomas Edison 16, Apartado de correos 95
CITY	08430 La Roca del Vallés (Barcelona)
TEL	+ 34 93 860 49 23
FAX	+34 93 871 23 36
E-MAIL	info@bossauto.com
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

Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

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 GHS07 GHS09

• **Warning word**

Danger

• **Hazardous components that have to be labelled:**

Naphtha (petroleum), hydrotreated light
 Solvent naphtha (petroleum), light arom.

• **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

• **Precautionary statements**

P102 Keep out of reach of children.
 P260 Do not breathe spray.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P251 Do not pierce or burn, even after use.
 P211 Do not spray on an open flame or other ignition source.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local regulations.







2.3. Other hazards

















Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Chemical characterisation: Mixtures

Description: mixture of active agents with propellant gas.

EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Naphtha (petroleum), hydrotreated light  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane  Flam. Gas 1, H220 Press. Gas C, H280	12,5-20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane  Flam. Gas 1, H220 Press. Gas C, H280	12.5-20%

CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane  Flam. Gas 1, H220 Press. Gas C, H280	10-12,5%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	Xylene  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332 Skin Irrit. 2, H315	5-10%
CAS: 12001-26-2 Número CE: 601-648-2	Mica substance with a Community workplace exposure limit	2,5-5%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  STOT SE 3, H335-H336	2,5-5%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32-xxxx	Carbon black substance with a Community workplace exposure limit	1-2,5%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-xxxx	Ethylbenzene  Flam. Liq. 2, H225  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332 Aquatic Chronic 3, H412	1-2,5%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36-xxxx	Solvent naphtha (petroleum), hydrotreated light naphthenic  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Chronic 2, H411	1-2,5%
CAS: 162303-51-7 NLP: 500-687-1	Polybutyl titanate  Flam. Liq. 3, H226  Eye Dam. 1, H318  Skin Irrit. 2, H315	1-2,5%

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

4. FIRST AID MEASURES

4.1. Description of first aid measures

A. After inhalation

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

B. After skin contact

Immediately wash with water and soap and rinse thoroughly.

C. After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

D. After swallowing

Drink plenty of water and provide fresh air. Call for a doctor 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 arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment: No special measures required.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

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.

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

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised 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**
Not required.

- **Further information about storage conditions**
Protect from heat and direct sunlight.

7.3. Specific end uses

No further relevant 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 limit values that require monitoring at the workplace

106-97-8 butane
WEL Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
1330-20-7 xylene
WEL Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
12001-26-2 Mica
WEL Long-term value: 10* 0.8** mg/m ³ *total inhalable **respirable
1333-86-4 Carbon black
WEL Short-term value: 7 mg/m ³ Long-term value: 3.5 mg/m ³
100-41-4 ethylbenzene
WEL Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk

B. Ingredients with biological limit values:

1330-20-7 xylene	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.

- **Respiratory protection**

Not required.

- **Protection of hands**



Protective gloves

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 preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection**



Tightly sealed goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Aerosol
Colour	Different according to colouring
Odour	Solvent-like
Odour threshold	Not determined.
pH value	Not determined.
Melting point/melting range	Undetermined
Boiling point/boiling range	Not applicable, as aerosol.
Flash point	<0 °C (<32 °F). Not applicable, as aerosol.
Flammability (solid, gas)	Not applicable
Ignition temperature	> 200 °C (> 392 °F)
Decomposition	Undetermined
Self-ignition	This product is not self-igniting.
Danger of explosion	This product is no explosive; however, formation of explosive air/vapour mixtures are possible.
Lower explosive limit	0,6 Vol. %
Upper explosive limit	10.9 Vol %
Vapour pressure at 20°C (68 °F)	3500 hPa (2625 mm Hg)
Density at 20°C (68 °F)	0.705 g/cm ³ (5.883 lbs/gal)
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	87.8 %
EU-VOC	619.0 g/l
EU-VOC in %	87.80 %
Solids content	15.4 %

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

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

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

Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalative	LC50/4h	> 2 mg/l (rat)
106-97-8 butane		
Inhalative	LC50/4h	658000 mg/m ³ (rat)
1330-20-7 xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4h	22.1 mg/m ³ (rat)
Solvent naphtha (petroleum), light arom.		
Oral	LD50	3592 mg/kg (rat) (OECD401)

Dermal	LD50	>3160 mg/kg (rab) (OECD402)
Inhalative	LC50/4h	>6193 mg/m ³ (rat)
1333-86-4 Carbon black		
Oral	LD50	10000 mg/kg (rat)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)
Solvent naphtha (petroleum), hydrotreated light naphthenic		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)
Inhalative	LC50 / 4h	>20 mg/l (rat)
Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2600 mg/kg (rabbit)
Inhalative	LC50 / 4h	>193 mg/m ³ (rat)
Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rat)
Inhalative	LC50 / 4h	>25200 mg/m ³ (rat)
	LC50 / 96 h	2.5 mg/l (Leuciscus idus)

B. Primary irritant effect

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **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**

Causes damage to organs through prolonged or repeated exposure.

- **Aspiration hazard**

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

12. ECOLOGICAL INFORMATION

12.1. Toxicity

A. Aquatic toxicity

Naphtha (petroleum), hydrotreated light	
EC50/48h	3 mg/l (Daphnia magna)
EC50/72 h	30-100 mg/l (Pseudokirchneriella Subcapitata)
LC50/96h	11.4 mg/l (fish)
1330-20-7 xylene (mix)	
EC50/48h	7.4 mg/l (daphnia magna)
LC50/96h	13.5 mg/l (fish)
Solvent naphtha (petroleum), light arom.	
EC50/24h	150 mg/l (daphnia magna)
EC50/72 h	7.4 mg/l (daphnia magna)
LC50/96h	3.77 mg/l (fish)
Naphtha (petroleum), hydrotreated light	
LC50	127-159 mg/l (Leuciscus idus)
Naphtha (petroleum), hydrotreated light	
EC50/24h	>10 mg/l (Daphnia magna)
	>100 mg/l (fish)
EC50/72 h	4924 mg/l (fish)
LC50/96h	2.5 mg/l (Pimephales promelas)

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 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

13.1. Waste treatment methods

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

European waste catalogue
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
15 01 04 metallic packaging

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: 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

IMDG: AEROSOLS (Naphtha (petroleum), hydrotreated light, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT

IATA: AEROSOLS, Flammable

14.3. Transport hazard class

ADR



Class: 2 5F Gases

Label: 2.1

IMDG,



Class: 2 5F Gases

Label: 2.1

IATA



Class: 2.1

Label: 2.1

14.4. Packaging group

ADR, IMDG, IATA: Void

14.5. Environmental hazards

Marine Pollutant: No

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 allowed as excepted quantity

Transport category 2

Tunnel restriction code: D

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ) Code: E0

Not allowed as excepted quantity

Tunnel restriction code: D

UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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 to 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 (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 57

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.

A. Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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