BOSSAUTO INNOVA, S.A.
Pol. Ind. Valldoriolf C/ Thomas Edison 16,
08430 La Roca del Vallés. Barcelona
t: +34 938 604 923 / f: +34 938 712 336
info@bossauto.com / www.bossauto.com

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

NAME OF THE PRODUCT	U404 Universal guide coat black 400 ml
CODE	110032
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
ADRESS	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 nº1272/2008 (CLP)

GHS08 Health hazard
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

GHS07
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) nº1272/2008
The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**

GHS02 GHS07

- **Warning word**

Danger

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

acetone
n-butyl acetate
butan-1-ol

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

- **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.

- **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. Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether Flam. Gas 1, H220 Press. Gas C, H280	20-25%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	12,5-20%
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	5-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	5-10%

Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx		
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	5-10%
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	5-10%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-xxxx	butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-2,5%
CAS: 9004-70-0	nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose Flam. Sol. 1, H228	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

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

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: CO2, powder or water spray. Fight larger fires with water spray or 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.

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
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**

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

67-64-1 acetone
WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
115-10-6 dimethyl ether
WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
123-86-4 n-butyl acetate
WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
108-65-6 2-methoxy-1-methylethyl acetate
WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
106-97-8 butane
WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
71-36-3 butan-1-ol
WEL Short-term value: 154 mg/m³, 50 ppm Sk

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 eyes.
Avoid contact with the eyes and skin.

- **Respiratory protection**

Not required.

- **Protection of hands**

Not required.

· Material of gloves
Not required.

· Penetration time of glove material
Not required.

- **Eye protection**

Tightly sealed googles.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Aerosol
Colour	Black
Odour	Solvent-like
Odour threshold	Not determined
pH value	Not determined
Melting point/melting range	Not determined
Boiling point/boiling range	Not applicable, as aerosol.
Flash point	<0 °C (<32 °F). Not applicable, as aerosol.
Flammability (solid, gas)	Not applicable
Self-ignition	240 °C (464 °F)
Decomposition	Not determined
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	1.2 Vol %
Upper explosive limit	26.2 Vol %
Vapour pressure at 20ºC (68 °F)	4000 hPa (3000 mm Hg)
Density at 20ºC (68 °F)	0,711 g/cm3
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility/miscibility in water at 20ºC	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic at 20ºC	Not determined
Kinematic	Not determined
Solvent content	
Organic solvents	92.0 %
EU-VOC	704.7 g/l
EU-VOC in %	91.97 %
Water	0.3 %
Solids content	9.6 %

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

67-64-1 acetone		
Oral Dermal Inhalative	LD50 LD50 LC50/4h	5800 mg/kg (rat) 7800 mg/kg (rbt) 39 mg/m^3 (rat)
115-10-6 dimethyl ether		
Inhalative	LC50/4h	308 mg/m^3 (rat)
123-86-4 n-butyl acetate		
Oral Dermal Inhalative	LD50 LD50 LC50 / 4 h	10770 mg/kg (rat) >17600 mg/kg (rabbit) >21.0 mg/m^3 (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral Dermal Inhalative	LD50 LD50 LC50 / 4 h	8532 mg/kg (rat) >5000 mg/kg (rabbit) 35.7 mg/m^3 (rat)
106-97-8 butane		
Inhalative	LC50 / 4 h	658000 mg/m^3 (rat)
71-36-3 butan-1-ol		
Oral Dermal Inhalative	LD50 LD50 LC50/4h	2292 mg/kg (rat) 3430 mg/kg (rabbit) 17.76 mg/m^3 (rat)

A. Primary irritant effect

- **Skin corrosion/irritation**

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

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **Respiratory or skin sensitisation**

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

B. CMR effects (carcinogenity, 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

67-64-1 acetone
EC50 / 48 h 8800 mg/l (daphnia magna) LC50 / 48 h 2262 mg/l (daphnia magna) LC50 / 96 h (static) 5540 mg/l (fish)
115-10-6 dimethyl ether
EC50 / 48 h >4000 mg/l (daphnia magna)
123-86-4 n-butyl acetate
EC50 / 48 h 44 mg/l (daphnia magna) EC50 / 96 h 320 mg/l (algae) LC50 / 24 h 205 mg/l (daphnia magna) LC50 / 96 h 18 mg/l (Pimephales promelas)
108-65-6 2-methoxy-1-methylethyl acetate
EC50 408 mg/l (daphnia magna)
71-36-3 butan-1-ol
EC50 / 48 h 1328 mg/l (daphnia magna) EC50 / 72 h 8500 mg/l (algae) LC50 / 96 h 1376 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. Additional environmental directions

· General directions:
Water hazard class 1 (German Regulation) (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

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: Non contaminated packagings may be recycled.

14. TRANSPORT INFORMATION

14.1. UN-Number
ADR, IMDG, IATA: UN1950

14.2. UN proper shipping name
ADR: 1950 AEROSOLS
IMDG: AEROSOLS
IATA: AEROSOLS, Flammable

14.3. Transport hazard class
ADR

Class: 2 5F Gases
Label: 2.1

IMDG, IATA

Class: 2.1
Label: 2.1

14.4. Packaging group
Marine pollutant: Void

14.5. Environmental hazards
Marine Pollutant: No

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

UN "Model Regulation": UN1950 AEROSOLS, 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
Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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.
H228 Flammable solid.
H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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
Flam. Sol. 1: Flammable solids – Category 1
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

The statements made here should describe the product with regard to the necessary safety precautions – they are no meant to guarantee definite characteristics – but they are based on our present up-to-date knowledge. No responsibility