

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 09.01.2026

Version number 112

Revision: 09.01.2026

| SECTION 1: Identification of the substance/mixture and of the company/undertaking | |
|--|--|
| 1.1 Product identifier | |
| Trade name: | <u>BUNGARD BLACK-OUT SPRAY</u> |
| Article number: | 74160 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | |
| Sector of Use | |
| SU21 | Consumer uses: Private households / general public / consumers |
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| Product category | PC9a Coatings and paints, thinners, paint removers |
| Process category | PROC7 Industrial spraying PROC11 Non industrial spraying |
| Environmental release category | ERC8a Wide dispersive indoor use of processing aids in open systems ERC8d Wide dispersive outdoor use of processing aids in open systems |
| Application of the substance / the mixture | Paint |
| 1.3 Details of the supplier of the safety data sheet | |
| Manufacturer/Supplier: | Bungard Elektronik GmbH & Co. KG Rilkestraße 1 D- 51570 Windeck-Germany Tel: +49 (0)2292 / 9-2828-0 Fax: +49 (0)2292 / 9-2828-29 e-mail info@bungard.de |
| Further information obtainable from: | Department Product Safety |
| 1.4 Emergency telephone number: | Medical Emergency information in case of poisoning: Poison Information Center Mainz – 24h – Phone: +49 6131 19240) |

| SECTION 2: Hazards identification | |
|---|--|
| 2.1 Classification of the substance or mixture | |
| Classification according to Regulation (EC) No 1272/2008 | |
|  GHS02 flame | |
| Aerosol 1 | H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. |
|  GHS05 corrosion | |
| Eye Dam. 1 | H318 Causes serious eye damage. |
|  GHS07 | |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Causes skin irritation. |
| STOT SE 3 | May cause drowsiness or dizziness. |

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· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.*· **Hazard pictograms**

GHS02



GHS05



GHS07

· **Signal word Danger**· **Hazard-determining components of labelling:***butan-1-ol**Solvent naphtha (petroleum), light arom.**Naphtha (petroleum), hydrotreated light*· **Hazard statements***H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.**H315 Causes skin irritation.**H318 Causes serious eye damage.**H336 May cause drowsiness or dizziness.**H412 Harmful 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.

* **SECTION 3: Composition/information on ingredients**

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

| | | |
|--|--|----------|
| CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-xxxx | dimethyl ether | 50-75% |
| CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx | Solvent naphtha (petroleum), light arom. | 10-12,5% |

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| | | |
|---|---|-------|
| 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: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35-xxxx | Naphtha (petroleum), hydrotreated light     Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336 | 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 | 5-10% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **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.

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SECTION 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**
- **Protective equipment:** No special measures required.

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SECTION 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.

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*** SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **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.
 - 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 safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store in a cool location.
 - Observe official regulations on storing packagings with pressurised 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 use(s)** No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

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

· **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

115-10-6 dimethyl ether

| | |
|-----|---|
| WEL | Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm |
|-----|---|

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 |
|-----|--|

71-36-3 butan-1-ol

| | |
|-----|--|
| WEL | Short-term value: 154 mg/m ³ , 50 ppm Sk |
|-----|--|

- **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 controls**

· **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:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Not required.
- **Penetration time of glove material** Not required.
- **Eye protection:**



Tightly sealed goggles

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SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:****Form:****Aerosol****Colour:****According to product specification****· Odour:****Characteristic****· Odour threshold:****Not determined.****· pH-value:****Not determined.****· Change in condition****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, gaseous):****Not applicable.****· Ignition temperature:****> 200 °C (> 392 °F)****· Decomposition temperature:****Not determined.****· Self-igniting:****Product is not selfigniting.****· Danger of explosion:****Product is not explosive. However, formation of explosive air/vapour mixtures are possible.****· Explosion limits:****Lower:****0.7 Vol %****Upper:****26.2 Vol %****· Vapour pressure at 20 °C (68 °F):****4000 hPa (3000 mm Hg)****· Density at 20 °C (68 °F):****0.77322 g/cm³ (6.453 lbs/gal)****· Relative density****Not determined.****· Vapour density****Not determined.****· Evaporation rate****Not applicable.****· Solubility in / Miscibility with****water:****Not miscible or difficult to mix.****· Partition coefficient (n-octanol/water):** Not determined.**· Viscosity:****Dynamic:****Not determined.****Kinematic:****Not determined.****· Solvent content:****Organic solvents:****88.3 %**(Contd. on page 6)
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| | |
|--------------------------------|--|
| · EU-VOC: | 682.4 g/l |
| · EU-VOC in %: | 88.26 % |
| · Solids content: | 11.7 % |
| · 9.2 Other information | No further relevant information available. |

*

SECTION 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 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

115-10-6 dimethyl ether

| | | |
|------------|------------|-----------------------------|
| Inhalative | LC50 / 4 h | 308 mg/m ³ (rat) |
|------------|------------|-----------------------------|

64742-95-6 Solvent naphtha (petroleum), light arom.

| | | |
|------------|------------|-------------------------------|
| Oral | LD50 | 3592 mg/kg (rat) (OECD401) |
| Dermal | LD50 | >3160 mg/kg (rab) (OECD402) |
| Inhalative | LC50 / 4 h | >6193 mg/m ³ (rat) |

1330-20-7 xylene

| | | |
|------|------|------------------|
| Oral | LD50 | 3523 mg/kg (rat) |
|------|------|------------------|

| | | |
|--------|------|---------------------|
| Dermal | LD50 | 2000 mg/kg (rabbit) |
|--------|------|---------------------|

| | | |
|------------|------------|------------------------------|
| Inhalative | LC50 / 4 h | 22.1 mg/m ³ (rat) |
|------------|------------|------------------------------|

64742-49-0 Naphtha (petroleum), hydrotreated light

| | | |
|------|------|-------------------|
| Oral | LD50 | >5840 mg/kg (rat) |
|------|------|-------------------|

| | | |
|--------|------|----------------------|
| Dermal | LD50 | >2920 mg/kg (rabbit) |
|--------|------|----------------------|

| | | |
|------------|-----------|----------------|
| Inhalative | LC50 / 4h | > 2 mg/l (rat) |
|------------|-----------|----------------|

71-36-3 butan-1-ol

| | | |
|------|------|------------------|
| Oral | LD50 | 2292 mg/kg (rat) |
|------|------|------------------|

| | | |
|--------|------|---------------------|
| Dermal | LD50 | 3430 mg/kg (rabbit) |
|--------|------|---------------------|

| | | |
|------------|------------|-------------------------------|
| Inhalative | LC50 / 4 h | 17.76 mg/m ³ (rat) |
|------------|------------|-------------------------------|

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **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.

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- **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.

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SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****115-10-6 dimethyl ether**

EC50 / 48 h >4000 mg/l (daphnia magna)

64742-95-6 Solvent naphtha (petroleum), light arom.

EC50 / 24 h 150 mg/l (daphnia magna)

EC50 / 48 h 7.4 mg/l (daphnia magna)

LC50 / 96 h 3.77 mg/l (fish)

1330-20-7 xylene

EC50 / 48 h 7.4 mg/l (daphnia magna)

LC50 / 96 h 13.5 mg/l (fish)

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50 / 48 h 3 mg/l (Daphnia magna)

EC50 / 72 h 30-100 mg/l (Pseudokirchneriella Subcapitata)

LC50 / 96 h 11.4 mg/l (fish)

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 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

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.

Harmful 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.

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SECTION 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

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- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packagings may be recycled.

| | | |
|---|--|---|
| * | SECTION 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(es) | |
| | · ADR |  |
| | · Class | 2 5F Gases. |
| | · Label | 2.1 |
| | · IMDG, IATA |  |
| | · Class | 2.1 |
| | · Label | 2.1 |
| | · 14.4 Packing group | |
| | · ADR, IMDG, IATA | Void |
| | · 14.5 Environmental hazards: | |
| | · Marine pollutant: | No |
| | · 14.6 Special precautions for user | Warning: Gases. |
| | · Danger code (Kemler): | - |
| | · EMS Number: | F-D,S-U |
| | · Stowage Code | SW1 Protected from sources of heat. SW2 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. 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. |
| | · Segregation Code | |
| | · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| | · Transport/Additional information: | |
| | · ADR | |
| | · Limited quantities (LQ) | 1L |

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| | |
|-----------------------------------|--|
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · Transport category | 2 |
| · Tunnel restriction code | D |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · UN "Model Regulation": | UN 1950 AEROSOLS, 2.1 |

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SECTION 15: Regulatory information

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

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SECTION 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.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H302 Harmful if swallowed.
 - 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.
 - H411 Toxic to aquatic life with long lasting effects.

- **Department issuing MSDS:** R&D legislation and regulatory advisor

- **Contact:** Mr. K. Smedeman

- **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, Hazard Category 1

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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 Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.

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