

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **BLACK COLOR SPRAY**

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Only for proper handling.

Colour spray

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MOTOREX AG

Bern–Zürich–Strasse 31, Postfach

CH–4901 Langenthal

Tel. +41 (0)62 919 75 75

www.motorex.com

Further information obtainable from: msds@motorex.com

1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

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 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes

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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 1)

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read carefully and follow all instructions.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves / eye protection / face protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Additional information:** Without sufficient ventilation, possible formation of explosive mixtures

• **2.3 Other hazards**• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

• **3.2 Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥10-≤25%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥10-≤25%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥5-≤10%
CAS: 12001-26-2	Mica substance with a Community workplace exposure limit	≥5-≤10%
EC number: 926-605-8 Reg.nr.: 01-2119486291	Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	≥5-≤10%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥5-<10%

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 2)

EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% of n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥5-<10%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33-xxxx	Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-7.5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	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: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	1-2.5%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	0.25-1%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons

≥30%

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Call a doctor immediately.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

· **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.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **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.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: **BLACK COLOR SPRAY**

(Contd. of page 3)

SECTION 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:

Dispose contaminated material as waste according to item 13.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Storage class: 2 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure

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)

12001-26-2 Mica

WEL Long-term value: 10* 0.8** mg/m³
 *total inhalable **respirable

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm
 Long-term value: 220 mg/m³, 50 ppm
 Sk; BMGV

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm
 Sk

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm
 Long-term value: 441 mg/m³, 100 ppm
 Sk

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 4)

110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm

· DNELs**Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane**

Oral	DNEL/general population/Systemic effects/Long-term	1,301 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	13,964 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,377 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5,306 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	1,131 mg/m ³ (consumer)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	608 mg/m ³ (consumer)

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

Oral	DNEL/general population/Systemic effects/Long-term	1,301 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	13,964 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,377 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5,306 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	1,131 mg/m ³ (consumer)

1330-20-7 xylene

Oral	DNEL/general population/Systemic effects/Long-term	1.6 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	180 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	108 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	77 mg/m ³ (worker)
	DNEL/Workers/Local effects/acute-short term	289 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	14.8 mg/m ³ (consumer)

71-36-3 butan-1-ol

Oral	DNEL/general population/Systemic effects/Long-term	3.125 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Local Effects / Long-term	310 mg/m ³ (worker)
	DNEL/general population/Local effects/Long-term	55 mg/m ³ (consumer)

100-41-4 ethylbenzene

Oral	DNEL/general population/Systemic effects/Long-term	1.6 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	180 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	77 mg/m ³ (worker)
	DNEL/Workers/Systemic effects/acute-short term	293 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	15 mg/m ³ (consumer)

110-82-7 cyclohexane

Oral	DNEL/general population/Systemic effects/Long-term	59.4 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	2,016 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,186 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	700 mg/m ³ (worker)
	DNEL/Workers/Systemic effects/acute-short term	700 mg/m ³ (worker)
	DNEL/Workers/Local effects/acute-short term	700 mg/m ³ (worker)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 5)

DNEL / Workers / Local Effects / Long-term	700 mg/m3 (worker)
DNEL/general population/Systemic effects/Long-term	206 mg/m3 (consumer)
DNEL/general pop/Systemic effects/acute-short term	412 mg/m3 (consumer)
DNEL/general pop/Local effects/acute-short term	412 mg/m3 (consumer)
DNEL/general population/Local effects/Long-term	206 mg/m3 (consumer)

· PNECs**1330-20-7 xylene**

PNEC / Aquatic organisms / Freshwater	0.327 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.327 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	6.58 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	12.46 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	12.46 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	2.31 mg/kg (terrestrial organisms)

71-36-3 butan-1-ol

PNEC / Aquatic organisms / Freshwater	0.082 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.0082 mg/l (aquatic organisms)
PNEC / Aquatic org / intermittent releases(freshwater)	2.25 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	2,476 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	0.178 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	0.0178 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	0.015 mg/kg (terrestrial organisms)

100-41-4 ethylbenzene

Oral PNEC / Predators / Secondary poisoning	20 mg/kg food (secondary poisoning (predators))
PNEC / Aquatic organisms / Freshwater	0.1 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.01-0.1 mg/l (aquatic organisms)
PNEC / Aquatic org / intermittent releases(freshwater)	0.1 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	9.6 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	13.7 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	1.37 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	2.68 mg/kg (terrestrial organisms)

110-82-7 cyclohexane

PNEC / Aquatic organisms / Freshwater	0.207 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.207 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	3.24 mg/l (aquatic organisms)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 6)

PNEC / Aquatic organisms / Sediment (freshwater)	3.627 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	3.627 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	2.99 mg/kg (terrestrial organisms)

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

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as 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 and skin.

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.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

Hand protection

Solvent resistant gloves



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** Butyl rubber, BR

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/face protection** Not required.

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information**

· **Physical state**

Aerosol

· **Colour:**

Black

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 7)

· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.5 Vol %
· Upper:	10.9 Vol %
· Flash point:	Not applicable, as aerosol.
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Consistency	
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Heat Capacity	
· Vapour pressure at 20 °C:	8 hPa
· Density and/or relative density	
· Density at 20 °C:	0.68 g/cm ³ (ASTM D 4052)
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	365 °C (DIN 51794)
· Explosive properties:	Not determined.
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 8)

· **Desensitised explosives**

Void

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.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

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

74-98-6 propane

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.214-21.394 mg/l (rat)
	LOAEC	21.64 mg/l (rat)
	LOAEC	12,000 ppm (rat)

106-97-8 butane, pure

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
	LOAEC	21.6 mg/l (rat)
	LOAEC	12,000 ppm (rat)

75-28-5 isobutane

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.214-21.394 mg/l (rat)
	LOAEC	21.641 mg/l (rat)
	LOAEC	12,000 ppm (rat)

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 9)

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

Oral	LD50	25 ml/kg (rat)
Dermal	LD50	5 ml/kg (rabbit)
Inhalative	LC50 / 4h	73,860 ppm (rat)
	NOAEC	8,992 ppm (mouse)
		2,984-8,992 ppm (rat)
	LOAEC	8,992 ppm (rat)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

Oral	LD50	8 ml/kg (rat)
Dermal	LD50	4 ml/kg (rat)
	LD50	2,800-3,100 mg/kg (rat)
Inhalative	LC50 / 4h	25.2 mg/l (rat)
	NOAEC	8.117-24.3 mg/l (rat)

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

Oral	LD50	25 ml/kg (rat)
Dermal	LD50	5 ml/kg (rabbit)
Inhalative	LC50 / 4h	73,860 ppm (rat)
	NOAEC	8,992 ppm (mouse)
		2,984-8,992 ppm (rat)
	LOAEC	8,992 ppm (rat)

Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes

Oral	LD50	8 ml/kg (rat)
Dermal	LD50	4 ml/kg (rat)
	LD50	2,800-3,100 mg/kg (rat)
	NOEL	200-2,000 mg/kg/24h (rabbit)
	NOAEL	375-3,750 mg/kg/24h (rat)
Inhalative	LC50 / 4h	23.3 mg/l (rat)
	NOAEC	9.84-20 mg/l (rat)

1330-20-7 xylene

Oral	LD50	5,251-5,627 mg/kg (mouse)
		3,523-4,000 mg/kg (rat)
	NOAEL	150-250 mg/kg/24h (rat)
Dermal	LOAEL	150 mg/kg/24h (rat)
	LD50	5,000 ml/kg (rabbit)
	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50 / 4h	6,350-6,700 ppm (rat)

71-36-3 butan-1-ol

Oral	LD50	2,292 mg/kg (rat)
	LD50	2.83 ml/kg (rat)
	NOEL	125 mg/kg/24h (rat)
	LOEL	500 mg/kg/24h (rat)
Dermal	LD50	4.24 ml/kg (rabbit)
	LD50	3,430 mg/kg (rabbit)
Inhalative	LC50 / 4h	17.76 mg/l (rat)
	NOEL	500 ppm (rat)

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 10)

100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
	NOAEL	75 mg/kg/24h (rat)
Dermal	LD50	17.8 ml/kg (rabbit)
	LD50	3,500 mg/kg (rat)
Inhalative	LC50 / 4h	17.2 mg/l (rat)
	NOAEC	75-1,000 ppm (mouse)
		250-1,000 ppm (rat)
		1,600 ppm (rabbit)

110-82-7 cyclohexane

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	32.88 mg/l (rat)
	LC50 / 4h	5,540 ppm (rat)
	NOAEC	500-2,000 ppm (mouse)
		500-7,000 ppm (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****74-98-6 propane**

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

106-97-8 butane, pure

LC50	24.1-147.5 mg/l/96h (fish)
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)

75-28-5 isobutane

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

LL50	9.776-12 mg/l/96h (fish)
EL50	17.06 mg/l/48h (aquatic invertebrates)
EL50	7.276 mg/l/72h (algae / cyanobacteria)
NOELR	2.187 mg/l/28d (fish)
NOELR	3.818 mg/l/21d (aquatic invertebrates)
NOELR	1.628 mg/l/72h (algae / cyanobacteria)

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 11)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	11.4 mg/l/96h (fish)
LL50	15.8 mg/l/72h (fish)
LL0	5.1 mg/l/96h (fish)
EL50	3 mg/l/48h (aquatic invertebrates)
EL50	12 mg/l/24h (aquatic invertebrates)
EL50	10-100 mg/l/72h (algae / cyanobacteria)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	2.045 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

LL50	18.27 mg/l/96h (fish)
EL50	31.9 mg/l/48h (aquatic invertebrates)
EL50	13.56 mg/l/72h (algae / cyanobacteria)
NOELR	4.089 mg/l/28d (fish)
NOELR	7.138 mg/l/21d (aquatic invertebrates)
NOELR	3.034 mg/l/72h (algae / cyanobacteria)

Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes

EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	8.2-13.4 mg/l/96h (fish)
EL50	3.7-13 mg/l/96h (algae / cyanobacteria)
EL50	3-4.5 mg/l/48h (aquatic invertebrates)
	10-30 mg/l/48h (algae / cyanobacteria)
EL50	12 mg/l/24h (aquatic invertebrates)
	10-30 mg/l/24h (algae / cyanobacteria)
EL50	3.1-30 mg/l/72h (algae / cyanobacteria)
EL50	10 mg/l/21d (fish)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	1-16 mg/l/28d (aquatic invertebrates)
	1.534 mg/l/28d (fish)
NOELR	2.6 mg/l/21d (fish)
NOELR	0.5-10 mg/l/72h (algae / cyanobacteria)
NOELR	0.5 mg/l/48h (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

1330-20-7 xylene

LC50	2.6 mg/l/96h (fish)
EC50	157 mg/l/3h (microorganisms)
EC50	96 mg/l/24h (microorganisms)

(Contd. on page 13)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 12)

EC10	0.72-1.9 mg/l/72h (algae / cyanobacteria)
EC50	2.2-4.36 mg/l/72h (algae / cyanobacteria)
NOEC	0.44 mg/l/72h (algae / cyanobacteria)
NOEC	0.96-1.17 mg/l/7d (aquatic invertebrates)
NOEC	157 mg/l/3h (microorganisms)
71-36-3 butan-1-ol	
LC50	1,376 mg/l/96h (fish)
EC50	225 mg/l/96h (algae / cyanobacteria)
EC50	18 mg/l/21d (aquatic invertebrates)
EC50	1,328 mg/l/48h (aquatic invertebrates)
NOEC	4.1 mg/l/21d (aquatic invertebrates)
NOEC	519 mg/l/96h (fish)
NOEC	415 mg/l/48h (aquatic invertebrates)
100-41-4 ethylbenzene	
LC50	2.6 mg/l/96h (aquatic invertebrates)
	4.2-5.1 mg/l/96h (fish)
LC50	5.8 mg/l/72h (fish)
LC50	3.6 mg/l/7d (aquatic invertebrates)
LC50	7 mg/l/24h (fish)
EC50	2.4-2.8 mg/l/24h (aquatic invertebrates)
	8-13.4 mg/l/24h (algae / cyanobacteria)
	96 mg/l/24h (microorganisms)
EC50	3.6-7.7 mg/l/96h (algae / cyanobacteria)
EC50	4.9-5.4 mg/l/72h (algae / cyanobacteria)
EC50	1.8-2.4 mg/l/48h (aquatic invertebrates)
	7.2-7.5 mg/l/48h (algae / cyanobacteria)
NOEC	3.4-4.5 mg/l/96h (algae / cyanobacteria)
	3.3 mg/l/96h (fish)
NOEC	0.96 mg/l/7d (aquatic invertebrates)
110-82-7 cyclohexane	
LC50	4.53 mg/l/96h (fish)
EC50	0.9-2.4 mg/l/96h (aquatic invertebrates)
EC50	3.4-9.317 mg/l/72h (algae / cyanobacteria)
NOEC	0.9-0.94 mg/l/72h (algae / cyanobacteria)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

74-98-6 propane	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
106-97-8 butane, pure	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
75-28-5 isobutane	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
Biodegradability	100 % (28d) (Biodegradability)
Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane	
Partition coefficient	3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	81 % (28d) (Biodegradability) (OECD 301 F)

(Contd. on page 14)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 13)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane	
Biodegradability	81 % (28d) (Biodegradability) (OECD 301 F)
Hydrocarbons, C6, isoalkanes, <5% of n-hexane	
Partition coefficient	3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	>80 % (28d) (Biodegradability) (OECD 301 F)
Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes	
Biodegradability	98 % (28d) (Biodegradability) (OECD 301 F)
1330-20-7 xylene	
Partition coefficient	3.12-3.2 [---] (log Kow) (Bioaccumulation)
Biodegradability	87.8 % (28d) (Biodegradability) (OECD 301 F)
71-36-3 butan-1-ol	
Partition coefficient	1 [---] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (OECD 301 A)
100-41-4 ethylbenzene	
Partition coefficient	3.03-3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	2 % (28d) (Biodegradability) (OECD 301 B)
110-82-7 cyclohexane	
Partition coefficient	3.44 [---] (log Kow) (Bioaccumulation)
Biodegradability	77 % (28d) (Biodegradability) (OECD 301 F)

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to 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

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.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

GB

(Contd. on page 15)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: **BLACK COLOR SPRAY**

(Contd. of page 14)

SECTION 14: Transport information

· 14.1 UN number or ID number	UN1950
· ADR/RID/ADN, IMDG, IATA	
· 14.2 UN proper shipping name	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· ADR/RID/ADN	AEROSOLS (Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane, Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane), MARINE POLLUTANT
· IMDG	AEROSOLS, flammable
· IATA	
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN	
	
· Class	2.5F Gases.
· Label	2.1
· IMDG	
	
· Class	2.1 Gases.
· Label	2.1
· IATA	
	
· Class	2.1 Gases.
· Label	2.1
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane
· Marine pollutant:	Yes
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Gases.
· Hazard identification number (Kemler code):	-
· 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. SG69 For AEROSOLS with a maximum capacity of 1 litre:
· Segregation Code	Segregation as for class 9. Stow "separated from"

(Contd. on page 16)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 15)

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 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) 1L · 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, ENVIRONMENTALLY HAZARDOUS

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
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
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

- **purity requirement**
- **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.

(Contd. on page 17)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: BLACK COLOR SPRAY

(Contd. of page 16)

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.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

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

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

Annex: Exposure scenario 1

· **Short title of the exposure scenario** Industrial use of sprays

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Product category**

PC14 Metal surface treatment products

PC34 Textile dyes, and impregnating products

· **Process category** PROC11 Non industrial spraying

· **Environmental release category**

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

· **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

· **Conditions of use**

· **Duration and frequency** 5 workdays/week.

· **Physical parameters**

· **Physical state** Fluid

· **Concentration of the substance in the mixture** The substance is main component.

(Contd. on page 18)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: **BLACK COLOR SPRAY**

(Contd. of page 17)

- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of sprays
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**
PC14 Metal surface treatment products
PC34 Textile dyes, and impregnating products
- **Process category** PROC11 Non industrial spraying
- **Environmental release category**
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.

(Contd. on page 19)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.04.2022

Version number 3.1 (replaces version 3.0)

Revision: 04.04.2022

Trade name: **BLACK COLOR SPRAY**

(Contd. of page 18)

- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of sprays
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category**
 - PC14 Metal surface treatment products
 - PC34 Textile dyes, and impregnating products
- **Process category** PROC11 Non industrial spraying
- **Environmental release category**
 - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 - ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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