

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

1.1 Product identifier

Trade name: **ZINC 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

Anti-corrosion product

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.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very 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:

xylene

ethylbenzene

Hazard statements

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

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

(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: ZINC COLOR SPRAY

(Contd. of page 1)

H410 Very toxic to aquatic life with long lasting effects.

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 adequate ventilation formation of explosive mixtures possible.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

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: 7440-66-6 EINECS: 231-175-3 Index number: 030-002-00-7 Reg.nr.: 01-2119467174-37	zinc powder -zinc dust (stabilized) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥25-≤50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥10-≤20%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥10-≤25%
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	≥10-≤25%
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	≥5-≤10%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥2.5-≤7.5%

(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: ZINC COLOR SPRAY

(Contd. of page 2)

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	≥2.5-≤7.5%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	≥2.5-≤7.5%
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	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: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥1-<2.5%

· **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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

· **After skin contact:**

Remove residues with soap and water.

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:** Mouth respiratory protective device.

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: ZINC 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:

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppm

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppmLong-term value: 766 mg/m³, 400 ppm

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppmLong-term value: 220 mg/m³, 50 ppm

Sk; BMGV

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppm

Sk, BMGV

106-97-8 butane, pure

WEL Short-term value: 1810 mg/m³, 750 ppmLong-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1,3-diene)

(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: ZINC COLOR SPRAY

(Contd. of page 4)

100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm
	Long-term value: 441 mg/m ³ , 100 ppm
Sk	

· DNELs**7440-66-6 zinc powder -zinc dust (stabilized)**

Oral	DNEL/general population/Systemic effects/Long-term	0.83 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	83 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	83 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	2.5 mg/m ³ (consumer)

115-10-6 dimethyl ether

Inhalative	DNEL / Workers / Systemic effects / Long-term	1,894 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	471 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)

78-93-3 butanone

Oral	DNEL/general population/Systemic effects/Long-term	31 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	1,161 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	412 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	600 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	106 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)

1314-13-2 zinc oxide

Oral	DNEL/general population/Systemic effects/Long-term	0.83 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	83 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	83 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5 mg/m ³ (worker)
	DNEL / Workers / Local Effects / Long-term	0.5 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	2.5 mg/m ³ (consumer)

· PNECs**7440-66-6 zinc powder -zinc dust (stabilized)**

PNEC / Aquatic organisms / Freshwater	0.0206 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.0061 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	0.1 mg/l (aquatic organisms)

(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: ZINC COLOR SPRAY

(Contd. of page 5)

	PNEC / Aquatic organisms / Sediment (freshwater)	117.8 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	56.5 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	35.6 mg/kg (terrestrial organisms)
67-64-1 acetone		
	PNEC / Aquatic organisms / Freshwater	10.6 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	1.06 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases (freshwater)	21 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sewage treatment plant / STP	100 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	30.4 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	3.04 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	29.5 mg/kg (aquatic organisms)
115-10-6 dimethyl ether		
	PNEC / Aquatic organisms / Freshwater	0.155 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.016 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases (freshwater)	1.549 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sewage treatment plant / STP	160 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.681 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.069 mg/kg (aquatic organisms)
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)
78-93-3 butanone		
Oral	PNEC / Predators / Secondary poisoning	1,000 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	55.8 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	55.8 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sewage treatment plant / STP	709 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	284.74 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	284.7 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	22.5 mg/kg (terrestrial 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: ZINC COLOR SPRAY

(Contd. of page 6)

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)

1314-13-2 zinc oxide

	PNEC / Aquatic organisms / Freshwater	0.0206 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.0061 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sewage treatment plant / STP	0.1 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	117.8 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	56.5 mg/kg (aquatic 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

78-93-3 butanone

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

· **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.

(Contd. on page 8)

Trade name: ZINC COLOR SPRAY

(Contd. of page 7)

· **Hand protection**



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 can not 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/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:

Silver grey

· Odour:

Characteristic

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Not applicable, as aerosol.

· Flammability

Not applicable.

· Lower and upper explosion limit

· Lower:

1 Vol %

· Upper:

26.2 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:

4,000 hPa

· Density and/or relative density

· Density at 20 °C:

1.28 g/cm³ (ASTM D 4052)

· Relative density

Not determined.

· Vapour density

Not determined.

(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: ZINC COLOR SPRAY

(Contd. of page 8)

9.2 Other information**Appearance:****Form:**

Liquefied gas

Important information on protection of health and environment, and on safety.**Ignition temperature:**

240 °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

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** Contact with strong oxidisers may cause fire.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**

If burned, produces sulphur oxides, zinc oxide, carbon oxide.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Harmful if inhaled.**LD/LC50 values relevant for classification:****7440-66-6 zinc powder -zinc dust (stabilized)**

Oral	LD50	2,000 mg/kg (rat)
	NOEL	3,000 ppm (mouse)
		3,000 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: ZINC COLOR SPRAY

(Contd. of page 9)

	NOAEL	31.52 mg/kg/24h (rat)
	LOAEL	53.8 mg/kg/24h (rat)
	LOEL	30,000 ppm (rat)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
	NOAEL	20,000 ppm (mouse) 10,000-50,000 ppm (rat)
	LOAEL	50,000 ppm (mouse) 20,000 ppm (rat)
Dermal	LD50	9.4-20 ml/kg (rabbit)
	LD50	7,426-15,800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/l (rat)
	LC50 / 8h	50.1 mg/l (rat)
	NOAEC	19,000 ppm (rat)
115-10-6 dimethyl ether		
Inhalative	LC50 / 4h	164,000 ppm (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)
	LOAEL	150 mg/kg/24h (rat)
Dermal	LD50	5,000 ml/kg (rabbit)
	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50 / 4h	6,350-6,700 ppm (rat)
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)
78-93-3 butanone		
Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	10 ml/kg (rabbit)
	LD50	5,000 mg/kg (rabbit)
Inhalative	NOAEL	5,041 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)

(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: ZINC COLOR SPRAY

(Contd. of page 10)

	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)
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)
1314-13-2 zinc oxide		
Oral	LD50	2,000-5,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	1.79-5.7 mg/l (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

78-93-3 butanone

List II

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

7440-66-6 zinc powder -zinc dust (stabilized)

LC50	0.112-2.92 mg/l/96h (fish)
LC50	0.095-1.22 mg/l/48h (aquatic invertebrates)
EC50	5.2 mg/l/3h (microorganisms)
EC50	0.22-22 mg/l/24h (aquatic invertebrates)
EC50	0.155-2.909 mg/l/48h (aquatic invertebrates)
NOEC	0.085-0.553 g/kg/21d (terrestr. macroorganisms (- arthropods))
NOEC	0.1-1 g/kg/28d (terrestr. macroorganisms (- arthropods))
NOEC	0.02 mg/l/96h (algae / cyanobacteria)

67-64-1 acetone

LC50	5,540-8,120 mg/l/96h (fish)
LC50	8,800 mg/l/48h (aquatic invertebrates)

(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: ZINC COLOR SPRAY

(Contd. of page 11)

LC50	2,100 mg/l/24h (aquatic invertebrates)
NOEC	1,106-2,212 mg/l/28d (aquatic invertebrates)
115-10-6 dimethyl ether	
LC50	4,100 mg/l/96h (fish)
EC50	4,400 mg/l/96h (aquatic invertebrates)
	154.917 mg/l/96h (algae / cyanobacteria)
NOEC	4,100 mg/l/96h (fish)
NOEC	4,400 mg/l/48h (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)
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)
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)
78-93-3 butanone	
LC50	2,993-3,200 mg/l/96h (fish)
LC50	1,723 mg/l/48h (fish)
LC50	1,656 mg/l/72h (fish)
LC50	1,816 mg/l/24h (fish)
EC50	345 mg/l/24h (aquatic invertebrates)
	1,901 mg/l/24h (algae / cyanobacteria)
EC50	2,029 mg/l/96h (algae / cyanobacteria)
EC50	1,972 mg/l/72h (algae / cyanobacteria)
EC0	136 mg/l/48h (aquatic invertebrates)
EC50	308-5,091 mg/l/48h (aquatic invertebrates)
	1,888 mg/l/48h (algae / cyanobacteria)
NOEC	68 mg/l/48h (aquatic invertebrates)
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)
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)

(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: ZINC COLOR SPRAY

(Contd. of page 12)

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)
1314-13-2 zinc oxide	
LC50	0.37-1.19 mg/l/96h (aquatic invertebrates)
	0.112-8.062 mg/l/96h (fish)
LC50	0.095-7.1 mg/l/48h (aquatic invertebrates)
EC10	720 mg/l/3h (microorganisms)
EC50	5.2-1,000 mg/l/3h (microorganisms)
EC50	0.14-6 mg/l/24h (aquatic invertebrates)
	7.1-27.1 mg/l/24h (microorganisms)
EC50	0.072-0.103 mg/l/96h (aquatic invertebrates)
EC50	0.155-100 mg/l/48h (aquatic invertebrates)

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential**

67-64-1 acetone	
Partition coefficient	-0.23 [---] (log Kow) (Bioaccumulation)
Biodegradability	91 % (28d) (Biodegradability) (OECD 301 B)
115-10-6 dimethyl ether	
Partition coefficient	0.07 [---] (log Kow) (Bioaccumulation)
1330-20-7 xylene	
Partition coefficient	3.12-3.2 [---] (log Kow) (Bioaccumulation)
Biodegradability	87.8 % (28d) (Biodegradability) (OECD 301 F)
74-98-6 propane	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
78-93-3 butanone	
Partition coefficient	0.3 [---] (log Kow) (Bioaccumulation)
Biodegradability	98 % (28d) (Biodegradability) (OECD 301 D)
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)
100-41-4 ethylbenzene	
Partition coefficient	3.03-3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	2 % (28d) (Biodegradability) (OECD 301 B)

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

(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: ZINC COLOR SPRAY

(Contd. of page 13)

12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

- **Remark:** Very 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.

Very 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.

SECTION 14: Transport information

14.1 UN number or ID number**ADR/RID/ADN, IMDG, IATA**

UN1950

14.2 UN proper shipping name**ADR/RID/ADN**

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

IMDG

AEROSOLS (zinc powder -zinc dust (stabilized), Hydrocarbons, C9, aromatics), MARINE POLLUTANT

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)**ADR/RID/ADN****Class**

2 5F Gases.

Label

2.1

(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: ZINC COLOR SPRAY

(Contd. of page 14)

· **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:**

· **Marine pollutant:** Symbol (fish and tree)

· **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" 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

(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: ZINC COLOR SPRAY

(Contd. of page 15)

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**
E1 Hazardous to the Aquatic Environment
P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 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.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
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.
EUH066 Repeated exposure may cause skin dryness or cracking.
- **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

(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: ZINC COLOR SPRAY

(Contd. of page 16)

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 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.
- **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.

GB

(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: ZINC COLOR SPRAY

(Contd. of page 17)

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.
- **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.

(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: ZINC COLOR SPRAY

(Contd. of page 18)

- **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.*

Annex: Exposure scenario 4

- **Short title of the exposure scenario** *Industrial use of anticorrosion agents*
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** *PC14 Metal surface treatment products*
- **Process category**
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
- **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.*

(Contd. on page 20)

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: ZINC COLOR SPRAY

(Contd. of page 19)

- **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 5

- **Short title of the exposure scenario** Professional use of anticorrosion agents
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC14 Metal surface treatment products
- **Process category**
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
- **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.

Annex: Exposure scenario 6

- **Short title of the exposure scenario** Private use of anticorrosion agents
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Product category** PC14 Metal surface treatment products

(Contd. on page 21)

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: ZINC COLOR SPRAY

(Contd. of page 20)

- **Process category**
 - PROC10 Roller application or brushing
 - PROC11 Non industrial spraying
 - PROC13 Treatment of articles by dipping and pouring
- **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.

GB