

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

Printing date 15.10.2020

Version number 113

Revision: 17.12.2019

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

**· 1.1 Product identifier**

**· Trade name: PROTECTON® ZINC SPRAY 400 ML**

**· Article number: SER9712-1890712**

**· 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**· Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**· Product category PC9a Coatings and paints, thinners, paint removers**

**· Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

**· Application of the substance / the mixture Paint**

**· 1.3 Details of the supplier of the safety data sheet**

**· Manufacturer/Supplier:**

MOTIP DUPLI B.V.

Wolfraamweg 2

NL- 8471 XC Wolvendaal

The Netherlands

Tel: +31 (0)561 694400

Fax: +31 (0)561 694411

e-mail: msds@nl.motipdupli.com

**· Further information obtainable from: Department Product Safety**

**· 1.4 Emergency telephone number:**

+31 (0)561-694400 (09:00h - 17:00h)

UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111

**\* SECTION 2: Hazards identification**

**· 2.1 Classification of the substance or mixture**

**· Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1

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



GHS09 environment

Aquatic Chronic 1 H410

Very toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2

H319

Causes serious eye irritation.

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

GHS02



GHS07



GHS09

**· Signal word Danger****· Hazard statements***H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.**H319 Causes serious eye irritation.**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.**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.**P260 Do not breathe spray.**P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.**P501 Dispose of contents / container in accordance with regional regulations.***· Additional information:***Buildup of explosive mixtures possible without sufficient ventilation.***· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures****· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether 	25-<50%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37	zinc powder -zinc dust (stabilized) 	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone 	5-<10%

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EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics     xylene   	5-<10%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32-xxxx	zinc oxide 	5-<10%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32		<2.5%

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

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#### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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#### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters** -
- **Protective equipment:** Mouth respiratory protective device.

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#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
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.

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## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

No special measures required.

### · Information about fire - and explosion protection:

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

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

### · 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.

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## SECTION 8: Exposure controls/personal protection

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

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm
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##### 67-64-1 acetone

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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##### xylene

WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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#### · Ingredients with biological limit values:

##### xylene

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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### · Additional information: The lists valid during the making were used as basis.

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Avoid contact with the eyes.

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**· 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.*

Filter A2/P3

**· Protection of hands:**



*Protective gloves*

**· Material of gloves**

Butyl rubber, BR

*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.*

**· Penetration time of glove material**

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

Xylene: 42 min

*Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.*

**· Eye protection:**



*Tightly sealed goggles*

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**SECTION 9: Physical and chemical properties**

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

**· General Information**

**· Appearance:**

**Form:** Aerosol

**Colour:** Grey

**· Odour:** Solvent-like

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Not applicable, as aerosol.

**· Flash point:** Not applicable, as aerosol.

**· Flammability (solid, gas):** Not applicable.

**· Ignition temperature:** >400 °C (>752 °F)

**· Decomposition temperature:** Not determined.

**· Explosive properties:** Not determined.

**· Explosion limits:**

**Lower:** 3.3 Vol %

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<b>Upper:</b>	26.2 Vol %
<b>. Vapour pressure at 20 °C (68 °F):</b>	4000 hPa (3000.2 mm Hg)
<b>. Density at 20 °C (68 °F):</b>	1.1 g/cm <sup>3</sup> (9.2 lbs/gal)
<b>. Relative density</b>	Not determined.
<b>. Vapour density</b>	Not determined.
<b>. Evaporation rate</b>	Not applicable.
<b>. Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>. Partition coefficient: n-octanol/water:</b>	Not determined.
<b>. Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>. Solvent content:</b>	
<b>Organic solvents:</b>	59.2 %
<b>VOC (EC)</b>	---
<b>648.3 g/l</b>	
<b>. VOC-EU%</b>	59.21 %
<b>. Solids content:</b>	40.7 %
<b>. 9.2 Other information</b>	No further relevant information available.

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**SECTION 10: Stability and reactivity**

- . 10.1 Reactivity** No further relevant information available.
- . 10.2 Chemical stability**
- . Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions** No dangerous reactions known.
- . 10.4 Conditions to avoid** No further relevant information available.
- . 10.5 Incompatible materials:** No further relevant information available.
- . 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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**SECTION 11: Toxicological information**

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

- . LD/LC50 values relevant for classification:**

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

Oral	LD50	>2000 mg/kg (rat) (OECD 401)
Inhalative	LC50 / 4 h	>5410 mg/m <sup>3</sup> (rat) (OECD 403)

**67-64-1 acetone**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/l (rat)

**xylene**

Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	29000 mg/m <sup>3</sup> (rat)

- . Primary irritant effect:**

- . Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**115-10-6 dimethyl ether**

EC50 / 96 h	155 mg/l (algae)
LC50 / 48 h	>4000 mg/l (daphnia magna)
LC50 / 96 h	>4000 mg/l (fish)

**67-64-1 acetone**

LC50/96h	8300 mg/l (fish)
EC50/96h	7200 mg/l (algae)
LC50 / 48 h	8450 mg/l (crustacean (water flea))

**xylene**

EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 mg/l (fish)

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

· **12.3 Bioaccumulative potential** No further relevant information available.

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

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

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

Also poisonous for fish and plankton in water bodies.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

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

· **European waste catalogue**

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

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

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Disposal must be made according to official regulations.

**SECTION 14: Transport information**

<b>· 14.1 UN-Number</b>	
<b>· ADR, IMDG, IATA</b>	UN1950
<b>· 14.2 UN proper shipping name</b>	
<b>· ADR</b>	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
<b>· IMDG</b>	AEROSOLS (zinc powder -zinc dust (stabilized), Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
<b>· IATA</b>	AEROSOLS, flammable
<b>· 14.3 Transport hazard class(es)</b>	
<b>· ADR</b>	
	
	
<b>· Class</b>	2 5F Gases.
<b>· Label</b>	2.1
<b>· IMDG</b>	
	
	
<b>· Class</b>	2.1
<b>· Label</b>	2.1
<b>· IATA</b>	
	
<b>· Class</b>	2.1
<b>· Label</b>	2.1
<b>· 14.4 Packing group</b>	
<b>· ADR, IMDG, IATA</b>	not regulated
<b>· 14.5 Environmental hazards:</b>	
<b>· Marine pollutant:</b>	Yes
	Symbol (fish and tree)
<b>· Special marking (ADR):</b>	Symbol (fish and tree)
<b>· 14.6 Special precautions for user</b>	Warning: Gases.
<b>· Hazard identification number (Kemler code):</b>	-
<b>· EMS Number:</b>	F-D,S-U
<b>· Stowage Code</b>	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 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.
<b>· Segregation Code</b>	

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·	For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.		
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.		
<b>· Transport/Additional information:</b>			
· ADR		1L	
· Limited quantities (LQ)		Code: E0	
· Excepted quantities (EQ)		Not permitted as Excepted Quantity	
		Code: E0	
		Not permitted as Excepted Quantity	
· Transport category	2		
· Tunnel restriction code	D		
· IMDG		1L	
· Limited quantities (LQ)		Code: E0	
· Excepted quantities (EQ)		Not permitted as Excepted Quantity	
		Code: E0	
		Not permitted as Excepted Quantity	
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS		

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### SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

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

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

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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.*

**· Department issuing SDS: R&D legislation and regulatory advisor**

**· Contact:** [msds@nl.motipdupli.com](mailto:msds@nl.motipdupli.com)

**· Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*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 - dermal – 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.**

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