

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

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

1.1 Product identifier

Trade name

Zinc Spray 171

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

Relevant identified uses of the substance or mixture

corrosion protection spray

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

BBC Cellpack GmbH

Carl-Zeiss-Strasse 20

79761 Waldshut-Tiengen

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e-mail electrical.products@cellpack.com

Information provided by / telephone

+49 (0)7741 6007-0

Advice on Safety Data Sheet

msds@cellpack.com

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

STOT SE 3; H336

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07



GHS09

Signal word

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Danger

Hazardous component(s) to be indicated on label:

acetone

Hazard statement(s)

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

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.
 P261 Avoid breathing vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P312 Call a POISON CENTRE/doctor/... if you feel unwell.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 P501 Dispose of contents/container to hazardous or special waste collection point.

Supplemental label elements

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

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

Keep out of the reach of children.

Contains 80 % by mass of inflammable ingredients.

2.3 Other hazards

During and after use possible formation of combustible mixture with solvents. The mixture does not contain any substance with endocrine disrupting properties (< 0.1 %).

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Aerosol

Hazardous ingredients

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information	
	CAS / EC / Index / REACH no		Concentration	%
1	butane			
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 25.00 - < 50.00	wt%
2	zinc powder - zinc dust (stabilized)			

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

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Region: GB

	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.50 - < 25.00	wt%
3	acetone			
	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 10.00 - < 25.00	wt%
4	Hydrocarbons, C9, aromatics			
	64742-95-6 918-668-5 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066	>= 5.00 - < 10.00	wt%
5	propane			
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 5.00 - < 10.00	wt%
6	isobutane			
	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas liq.; H280	< 1.00 - 5.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
4	P	-	-	-
5	U	-	-	-
6	C, U	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures
4.1 Description of first aid measures
General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

After skin contact

Wash off with soap and water. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Exposure to heat may cause bursting of the aerosol packagings.

5.3 Advice for firefighters

Cool endangered containers with water in case of fire. When extinguishing fires, use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

General protective and hygiene measures

Do not eat or drink during work - no smoking.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Technical measures and storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place. Protect from direct sunlight.

Requirements for storage rooms and vessels

Storage rooms must be properly ventilated.

Incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
List of approved workplace exposure limits (WELs) / EH40			
Butane			
	WEL short-term (15 min reference period)	1810 mg/m ³	750 ppm
	WEL long-term (8-hr TWA reference period)	1450 mg/m ³	600 ppm
	Comments	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
2	acetone	67-64-1	200-662-2
2000/39/EC			
Acetone			
	WEL long-term (8-hr TWA reference period)	1210 mg/m ³	500 ppm
List of approved workplace exposure limits (WELs) / EH40			
Acetone			
	WEL short-term (15 min reference period)	3620 mg/m ³	1500 ppm
	WEL long-term (8-hr TWA reference period)	1210 mg/m ³	500 ppm

DNEL, DMEL and PNEC values
DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	acetone	67-64-1 200-662-2		
	dermal	Long term (chronic)	systemic	186 mg/kg/day
	inhalative	Short term (acut)	local	2420 mg/m ³
	inhalative	Short term (acut)	systemic	1210 mg/m ³
2	Hydrocarbons, C9, aromatics	64742-95-6 918-668-5		
	dermal	Long term (chronic)	systemic	12.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	151 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	acetone	67-64-1 200-662-2		
	oral	Long term (chronic)	systemic	62 mg/kg/day
	dermal	Long term (chronic)	systemic	62 mg/kg/day
	inhalative	Long term (chronic)	systemic	200 mg/m ³

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

2	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5
	oral	Long term (chronic)	systemic	7.5 mg/kg/day
	dermal	Long term (chronic)	systemic	7.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	32 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	zinc powder - zinc dust (stabilized)		7440-66-6 231-175-3
	water	fresh water	14.4 µg/L
	water	marine water	7.2 µg/L
	water	fresh water sediment	146.9 mg/kg dry weight
	water	marine water sediment	162.2 mg/kg dry weight
	soil	-	83.1 mg/kg dry weight
	sewage treatment plant	-	100 µg/L
2	acetone		67-64-1 200-662-2
	water	fresh water	10.6 mg/L
	water	Aqua intermittent	21 mg/L
	water	marine water	1.06 mg/L
	water	fresh water sediment	30.4 mg/kg
	water	marine water sediment	3.04 mg/kg
	soil	-	29.5 mg/kg
	sewage treatment plant	-	100 mg/L

8.2 Exposure controls
Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Personal protective equipment
Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators: Use half-mask model with cartridge or air-fed. Recommendation: gas filter AX, code colour: brown

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

In case of short-term contact / splash protection:

Appropriate Material	butyl rubber		
Material thickness	>	0.7	mm
Breakthrough time	>=	480	min

Other

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Environmental exposure controls

No data available.

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation		
liquid		
Form		
Aerosol		
Colour		
grey		
Odour		
Product specific		
pH value		
No data available		
Boiling point / boiling range		
Not applicable		
Melting point/freezing point		
No data available		
Decomposition temperature		
No data available		
Flash point		
Not applicable		
Ignition temperature		
No data available		
Flammability		
No data available		
Lower explosion limit		
Value	5	% vol
Reference substance	solvent	
Upper explosion limit		
Value	15	% vol
Reference substance	solvent	
Vapour pressure		
Value	3.8	hPa
Reference temperature	20	°C
Comments	pressure inside the can	
Value	6.8	hPa
Reference temperature	50	°C
Comments	pressure inside the can	
Relative vapour density		
No data available		
Relative density		
No data available		
Density		
Value	0.86	g/ml
Reference temperature	20	°C
Solubility in water		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Comments	insoluble
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Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
log Pow			-0.23
Method		QSAR	
Source		ECHA	
2	propane	74-98-6	200-827-9
log Pow		appr.	1.8
Method		QSAR	
Source		ECHA	
3	isobutane	75-28-5	200-857-2
log Pow			2.80
Reference temperature			20 °C
with reference to		pH 7	
Source		ECHA	

Kinematic viscosity
No data available

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable if stored and handled properly.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LD50		> 2000	mg/kg bodyweight
Species		rat	
Method		OECD 401	

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Source	ECHA		
2 acetone	67-64-1	200-662-2	
LD50		5800	mg/kg bodyweight
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3 Hydrocarbons, C9, aromatics	64742-95-6	918-668-5	
LD50	>	3492	mg/kg bodyweight
Species	rat		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
LD50	>	15800	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LD50	>	3160	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LC50		5.41	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	acetone	67-64-1	200-662-2
LC50		76	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LC50	>	6.193	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	propane	74-98-6	200-827-9
LC50	>	800000	ppmV
Duration of exposure		0.25	h
State of aggregation	Gas		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	isobutane	75-28-5	200-857-2
LC50		520400	ppmV
Duration of exposure		2	h
State of aggregation	Gas		
Species	mouse		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	
2	acetone	67-64-1	200-662-2
Species		guinea pig	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		low-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Serious eye damage/irritation	
No	Product Name
1	Zinc Spray 171
Evaluation	irritant

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure		Skin	
Method		OECD 429	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	acetone	67-64-1	200-662-2
Route of exposure		Skin	
Species		guinea pig	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Human Lymphocyte	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	acetone	67-64-1	200-662-2

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	Chinese hamster Ovary (CHO)		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in mammalian cells		
Species	Mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	isobutane	75-28-5	200-857-2
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538		
Method	Value taken from the literature		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Route of exposure	inhalational		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure	oral		
Type of examination	2 generation study		
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	acetone	67-64-1	200-662-2
Route of exposure	inhalational		
NOAEC	2200	ppm	
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	propane	74-98-6	200-827-9
Route of exposure	inhalational		
NOAEC	12000	ppm	
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 422		
Source	ECHA		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
6	isobutane	75-28-5	200-857-2
Route of exposure	inhalational		
NOAEC	9000 ppm		
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure	dermal		
Type of examination	Toxicity study		
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Route of exposure	inhalational		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure	inhalational		
Species	rat		
Method	OECD 412		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	dermal		
Species	rat		
Method	OECD 411		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	acetone	67-64-1	200-662-2
Route of exposure	oral		
NOAEL	10000 ppm		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
NOAEC	19000 ppm		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	propane	74-98-6	200-827-9
Route of exposure	inhalational		
LOAEC	12000 ppm		
Species	rat		
Method	OECD 422		
Source	ECHA		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
5	isobutane	75-28-5	200-857-2
Route of exposure	inhalational		
		9000	ppm
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

11.2 Information on other hazards
Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information
12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LC50		0.169	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 202		
Source	ECHA		
2	acetone	67-64-1	200-662-2
LC50		5540	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LL50		9.2	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		0.056	mg/l
Duration of exposure		116	day(s)
Species	Salmo trutta		
Method	OECD 210		
Source	ECHA		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		360	µg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	US EPA/600/4-85/013		
Source	ECHA		
2	acetone	67-64-1	200-662-2
EC50		8800	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		3.2	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		91	µg/l
Duration of exposure		21	day(s)
Species	Daphnia longispina		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		350	µg/l
Duration of exposure		72	h
Species	Planothidium lanceolatum		
Method	OECD 201		
Source	ECHA		
2	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		2.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		5.2	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EC50	>	99	mg/l
Duration of exposure		10	min
Species	activated sludge		
Method	OECD 209		

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

Source	ECHA
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12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Type		aerobic biodegradation	
Value		50	%
Duration		3.46	d
Method		QSAR	
Source		ECHA	
2	acetone	67-64-1	200-662-2
Type		aerobic biodegradation	
Value		90.9	%
Duration		28	day(s)
Method		OECD 301 B	
Source		ECHA	
Evaluation		readily biodegradable	
3	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Type		BSB	
Value		78	%
Duration		28	d
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	
4	propane	74-98-6	200-827-9
Type		aerobic biodegradation	
Value		50	%
Duration		3	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	
5	isobutane	75-28-5	200-857-2
Type		aerobic biodegradation	
Value		50	%
Duration		3.1	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
log Pow		-0.23	
Method		QSAR	
Source		ECHA	
2	propane	74-98-6	200-827-9
log Pow		appr.	1.8
Method		QSAR	
Source		ECHA	
3	isobutane	75-28-5	200-857-2
log Pow		2.80	
Reference temperature		20 °C	
with reference to		pH 7	
Source		ECHA	

12.4 Mobility in soil

No data available.

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects
Danger to drinking water if even extremely small quantities leak into the ground.

12.8 Other information

Other information
The product should not be allowed to enter drains or water courses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Hand over only completely emptied aerosol cans for valuable substance recovery!

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	2
Classification code	5F
UN number	UN1950
Proper shipping name	AEROSOLS
Tunnel restriction code	D
Label	2.1
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	2
UN number	UN1950
Proper shipping name	AEROSOLS
EmS	F-D, S-U
Label	2.1
Marine pollutant mark	Symbol "fish and tree"
Comments	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.

14.3 Transport ICAO-TI / IATA

Class	2.1
UN number	UN1950
Proper shipping name	Aerosols, flammable
Label	2.1
Comments	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 PI203).

14.4 Other information

No data available.

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations
Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	acetone	67-64-1	200-662-2	75
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: E2, P3a

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content	75.29	%
VOC-value	647.5	g/l

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information
Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EU safety data sheet

Trade name: Zinc Spray 171

Product no.: L6

Current version : 5.0.0, issued: 09.01.2024

Replaced version: 4.4.0, issued: 17.08.2023

Region: GB

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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
P	The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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