Telefax: ++49(0)7041-963429



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Zinc Spray

Print date: 29.05.2015 Product code: VB_27 Page 1 of 10

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

1.1. Product identifier

Zinc Spray

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

Uses advised against

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name: ITW LLC & Co. KG
Street: Mühlackerstrasse 147
Place: D-75417 Mühlacker
Telephone: ++49(0)7041-96340

e-mail: info@itwcp.de
Internet: www.itwcp.de
Responsible Department: Produktsicherheit

1.4. Emergency telephone ++49(0)7041-96340

number: Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F+ - Extremely flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the

environment R phrases:

Extremely flammable.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Acetone, Hydrocarbons, aromatic C9

Signal word: Dange

Pictograms: GHS02-GHS07-GHS09







Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.



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	according to regulation (EG) No 1307/2000			
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H319	Causes serious eye irritation.			
H336	May cause drowsiness or dizziness.			
H410	Very toxic to aquatic life with long lasting effects.			
Precautionary statements	S			
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P271	Use only outdoors or in a well-ventilated area.			
P251	Do not pierce or burn, even after use.			
P211	Do not spray on an open flame or other ignition source.			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P102	Keep out of reach of children.			
P101	If medical advice is needed, have product container or label at hand.			
Special labelling of certai	in mixtures			
EUH066	Repeated exposure may cause skin dryness or cracking. Ohne ausreichende Lüftung Bildung explosionsfähiger Gemische möglich. Buildup of explosive mixtures possible without sufficient ventilation.			

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-175-3	zinc powder - zinc dust (stabilized)	25-50%
7440-66-6	N - Dangerous for the environment R50-53	
030-001-01-9	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H400 H410	
200-857-2	isobutane	10-25%
75-28-5	F+ - Extremely flammable R12	
601-004-00-0	Flam. Gas 1; H220	
200-662-2	acetone; propan-2-one; propanone	10-25%
67-64-1	F - Highly flammable, Xi - Irritant R11-36-66-67	
606-001-00-8	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
200-827-9	propane	10-25%
74-98-6	F+ - Extremely flammable R12	
601-003-00-5	Flam. Gas 1; H220	
215-535-7	xylene	5-10%
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315	
203-448-7	butane	5-10%
106-97-8	F+ - Extremely flammable R12	
601-004-00-0	Flam. Gas 1; H220	
918-668-5	Hydrocarbons, C9, aromatics	5-10%
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H304 H411	
01-2119455851-35		
202-849-4	ethylbenzene	1-5%
100-41-4	F - Highly flammable, Xn - Harmful R11-20-48/20-65	
601-023-00-4	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water.



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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

Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media

Water with tenside additive. Water.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Ventilate affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition.

- No smoking.

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
İ		1500	3620		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810	•	STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
İ		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650	urine	Post shift
			mmol/mol		

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

DIN EN 374 Tested protective gloves are to be worn: Butyl rubber. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing:

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol Colour: grey

Odour: characteristic

Test method

Changes in the physical state

Initial boiling point and boiling range: -0,5 °C



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Flash point:	<0° °C	
Lower explosion limits:	1,4 vol. %	
Upper explosion limits:	14,3 vol. %	
Ignition temperature:	>200 °C	
Vapour pressure: (at 20 °C)	2100 hPa	
Vapour pressure: (at 50 °C)	4900 hPa	
Density:	0,95 g/cm³	

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name					
	Exposure routes	Method	Dose	Species	Source	
67-64-1	acetone; propan-2-one; propanone					
	oral	LD50	5800 mg/kg	Rat	RTECS	
	dermal	LD50	20000 mg/kg	Rabbit	IUCLID	
	inhalative (4 h) vapour	LC50	76 mg/l	Rat		
1330-20-7	xylene					
	dermal	ATE	1100 mg/kg			
	inhalative gas	ATE	4500 ppm			
106-97-8	butane					
	inhalative (4 h) gas	LC50	273000 ppm	Rat	GESTIS	
100-41-4	ethylbenzene					
	oral	LD50	3500 mg/kg	Rat	GESTIS	
	dermal	LD50	15400 mg/kg	Rabbit	GESTIS	
	inhalative (4 h) vapour	LC50	17,2 mg/l	Rat		
	inhalative gas	ATE	4500 ppm			



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Irritation and corrosivity

Vapours may cause drowsiness and dizziness.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name						
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source	
67-64-1	acetone; propan-2-one; propano	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna		
100-41-4	ethylbenzene						
	Acute algae toxicity	ErC50	3,6 mg/l	96 h		GESTIS	

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
67-64-1	acetone; propan-2-one; propanone	-0,24
74-98-6	propane	2,36
106-97-8	butane	2,89
100-41-4	ethylbenzene	3,15

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself

SECTION 14: Transport information

Land transport (ADR/RID)



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14.1. UN number:UN195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F

Special Provisions: 190 327 625

Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

14.1. UN number:UN195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number: UN1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es): 2
14.4. Packing group:

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: See SP277 EmS: F-D, S-U

Other applicable information (marine transport)

E0

Air transport (ICAO)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es): 2.1



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Hazard label:



Special Provisions: A145 A167 Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

Other applicable information (air transport)

E0 : Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 52,625 % (578,875 g/l)

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

10	Fiammable.
11	Highly flammable.
12	Extremely flammable.
20	Harmful by inhalation.
20/21	Harmful by inhalation a

20/21 Harmful by inhalation and in contact with skin.

36 Irritating to eyes.38 Irritating to skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Very toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.
H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.



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H315	Causes skin irritation.				
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
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.				

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)