

according to Regulation (EC) No 1907/2006

Zinc Spray

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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 149
Place: D-75417 Mühlacker

Telephone: ++49(0)7041-96340 Telefax:++49(0)7041-963429

e-mail: info@itwcp.de Internet: www.itwcp.de

Responsible Department: Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00

Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in

Switzerland dial 145)

United Kingdom: National Poisons Information Service - Phone number:

8448920111

Österreich: Vergiftungsinformationszentrale Vienna - Telefon-Nummer: +43 1

406 43 43

Schweiz: Tox Info Suisse - Telefon-Nummer: +41 44 251 51 51 Italia: Centro Antiveleni, Roma - Numero di telefono: +39 06 305 4343 España: Instituto Nacional de Toxicología - Teléfono: +34 91 562 04 20

1.4. Emergency telephone

number:

Deutschland: ++49(0)7041-96340

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 1

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

Regulation (EC) No. 1272/2008

Hazard components for labelling

Acetone, Hydrocarbons, aromatic C9

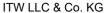
Signal word: Danger

Pictograms:











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Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

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 certain 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

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification	•	•	
7440-66-6	zinc powder - zinc dust (stabilised	4)		25-50%
	231-175-3	030-001-01-9		
	Aquatic Acute 1, Aquatic Chronic	1; H400 H410		
75-28-5	isobutane			10-25%
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220	•		
67-64-1	acetone; propan-2-one; propanor	ne		10-25%
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SI			
74-98-6	propane		10-25%	
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
1330-20-7	xylene		5-10%	
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute	H315		
106-97-8	butane		5-10%	
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
	Hydrocarbons, C9, aromatics		5-10%	
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT S H411	H226 H335 H336 H304		
100-41-4	ethylbenzene		1-5%	
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Tox. 4, STOT	1304		

Full text of H and EUH statements: 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.

4.2. Most important symptoms and effects, both acute and delayed

No data available



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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.

Hints on joint storage

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
		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
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL
1	I .		1	1		1

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 (creatinine)	650 mmol/mol		Post shift

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: NBR (Nitrile 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. NBR (Nitrile rubber)

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

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: Upper explosion limits:	1,4 vol. % 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



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Acute toxicity

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

Irritation and corrosivity

Vapours may cause drowsiness and dizziness.

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	Dose		[h] [d]	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone						
	Acute fish toxicity	LC50 mg/l	5540		Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna		
100-41-4	ethylbenzene						
	Acute algae toxicity	ErC50	3,6 mg/l	96 h		GESTIS	

12.3. Bioaccumulative potential



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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.

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 hazardous

substances; 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)

14.1. UN number: UN1950 **14.2. 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)

FC

Inland waterways transport (ADN)

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

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



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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):
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)

FΩ

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

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



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

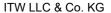
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



SECTION 15: Regulatory information

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





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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: isobutane; butane

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

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information

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.
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.

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