

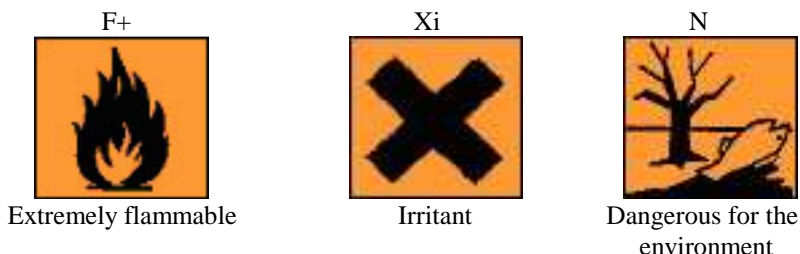
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1. Identification of substance, company:

- 1.1. Identification of substance: **ZN-Spray - 02.0003 (spray)**
 1.2. Application of the substance/the preparation: Zinc spray application
 1.3. Identification of manufacturer/Supplier:
 RETECH, s.r.o.
 Vackova 1541/4
 150 00 Praha-5 Stodůlky
 Telephone/Fax: +420 327 596 128, +420 596 428
 Information: hana.mekotova@retech.cz
 1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory
 extraordinary situations: Tel.+420 327 596 128 (7.30-16.00 hour)
 Toxicology information number, Na bojišti 1, 128 08 PRAHA 2
 Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Hazard identification: The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

2.1. Hazard designation:



2.2. Information pertaining to particular dangers for man and environment:

Extremely flammable.
 Irritating to eyes.
 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.
 Repeated exposure may cause skin dryness or cracking.
 Vapours may cause drowsiness and dizziness.

2.3. Additional information:

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 away from sources of ignition.-
 No smoking.
 Buildup of explosive mixtures possible without sufficient ventilation.
 The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3. Composition/information on ingredients:

3.1. Description:

Mixture of the substances listed below with harmless additions.

3.2. Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Acetone	25-50	67-64-1	200-662-2	F,Xi	R 11-36-66-67
Butane	10-25	106-97-8	203-448-7	F+	R 12
Propane	28-36	74-98-6	200-827-9	F +	R 12
Xylene	5-10	1330-20-7	215-535-7	Xn	R 10-20/21-38

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Butylacetate	2.5-10	123-86-4	204-658-1	-	R 10-66-67
Zinc powder-zinc dust (pirophoric)	2.5-10	7440-66-6	231-175-3	F,N	R 15-17-50/53
Trizinc bis (orthophosphate)	0.1-1.0	7779-90-0	231-944-3	N	R 50/53

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First aid measures:

- 4.1. After inhalation: Fresh air, rest, if necessary seek medical advice.
- 4.2. After skin contact: Wash with plenty of water, if necessary take off dirty clothing.
- 4.3. After eye contact: Rinse with plenty of water and seek medical advice..
- 4.4. After swallowing: Wash out mouth with water and seek medical advice. Do not induce vomiting.
- 4.5. General information: -

5. Fire fighting measures:

- 5.1. Suitable extinguishing agents: CO₂, powder or foam
- 5.2. For safety reasons unsuitable extinguishing agents: Water
- 5.3. Protective equipment: Wear protecting clothes and oxygen-mask; fight the fire from a protected place.
- 5.4. Special hazards caused by the material, its products of combustion or resulting gases: -
- 5.5. Additional information: Aerosols may explode when overheated. Cool the container with water.

6. Accidental release measures:

- 6.1. Person-related safety precautions: Wear protective equipment see item 8.2. Ensure adequate ventilation. Keep unprotected person away.
- 6.2. Measures for environmental protection: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- 6.3. Measures for cleaning/collecting: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.
- 6.4. Additional information: -

7. Handling and storage:

- 7.1. Handling:
 - Information for safe handling: -
 - Information about protection against explosions and fires: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, do not open violently, do not spray on a naked flame or any incandescent material, do not piece or burn even after use. Keep away from sources ignition.– Do not smoke. Keep out of reach children.
- 7.2. Storage:
 - Requirements to be met by storerooms and containers: To be stocked cool and dry, protect from sunlight and do not expose to temperatures exceeding 50°C
 - Information about storage in one common storage facility: -
 - Further information about storage conditions: -

8. Exposure controls and personal protection:

- 8.1. Validate parameter:
 - Components with limit values that require monitoring at the workplace: 67-64-1 acetone

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<p>OES Long-term value: 1210 mg/m³, 500 ppm (EU) 106-97-8 butane (GB) OES Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm 74-98-6 propane OES Long-term value: 1000 ppm 1330-20-7 xylene OES Short-term value: 662 mg/m³, 150 ppm Long-term value: 441 mg/m³, 100 ppm 123-86-4 Butylacetate OES Short-term value: 724 mg/cm³, 150 ppm Long-term value: 966 mg/cm³, 200 ppm Additional information: The lists that were valid during the compilation were as basis.</p>		
8.2.	Personal protective equipment:	
	Eye protection:	Safety glasses
	Breathing equipment:	Use suitable respiratory protective device in case of insufficient ventilation.
	Protection of hands:	PVC-hand gloves
	Protection of skin:	Protective working clothing
8.3.	General protective and hygienic measures:	The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hand after each work period and before eating.
9.	Physical and chemical properties:	
	Form:	Aerosol
	Colour:	Silver
	Odour:	Characteristic
9.1.	Melting point/Melting range:	-
	Boiling point/Boiling range:	-44°C
	Flash point:	- 97°C
	Inflammability (strength, gas form)	-
	Self-inflammability:	365°C
	Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
	Explosion limits: lower (% Vol.):	1.5
	upper (% Vol.):	13.0
	Vapor pressure (at 20°C):	3.5 bar
	Density at 20 °C	0.733 g/cm ³
	Solubility in/Miscibility with - water	Not miscible or difficult to mix.
9.2.	Other information:	
	Organic solvents:	86.8%
	Solids content:	13.2%
	VOC:	636.2 g/l
10.	Stability and reactivity:	
10.1.	Thermal decomposition / conditions to be avoided:	Do not expose temperatures exceeding 50°C.
10.2.	Dangerous reactions:	No dangerous reaction known.
10.3.	Dangerous decomposition products:	No dangerous decomposition products known.
11.	Toxicological information:	
11.1.	Acute toxicity:	
	1330-20-7 xylene	
	Oral LD50	8700 mg/kg (rat)
	Dermal LD50	2000 mg/kg (rbt)
	Inhalative LC50/4h	6350 mg/l (rat)
	67-64-1 Acetone	

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<p>Oral LD50 5800 mg/kg (rat) Dermal LD50 20000 mg/kg (rbt) Inhalative LC50/4h 193 mg/l (rat) 106-97-8 Butane Inhalative LC50/4h 658 mg/l (rat)</p> <p>11.2. Primary irritant effect: on the skin: Can degrease the skin by long term contact. on the eye: Irritant effect. Sensitization: No sensitizing effects known. Additional toxicological information: Fumes can irritate the respiratory system; may also cause headaches and dizziness. Harmful if swallowed. May cause vomiting and diarrhea.</p>
<p>12. Ecological information: 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. Toxic for fish Toxic for aquatic organisms</p>
<p>13. Disposal considerations: 13.1. Product: Dispose in safe manner in accordance with local/national regulation. 13.2. Uncleaned packaging: Disposal must be made according to official regulations.</p>
<p>14. Transport information: 14.1. Land transport: ADR/RID-GGVs: 2. Number/Letter: 5F Danger code (Kemler): 23 Number UN: 1950 Description of goods: Aerosols 14.2. Maritime transport: IMDG-class: 2.1 Number UN: 1950 Packaging group: - EMS-group: F-D,S-U Marine pollutant: No Proper shipping name: Aerosols 14.3. Air transport: ICAO / IATA -class: 2.1 UN/ID number: 1950 Packaging group: - Proper shipping name: Aerosols, flammable</p>
<p>15. Regulatory information: 15.1. Labelling according to law line: The product has been labeled in accordance with EC Directives / relevant national laws. 15.2. Danger of determining components and mark to labelling: 67-64-1 – Acetone, 7440-66-6 Zinc, 74-98-6/106-97-8 – Propane/Butane Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn. Do not spray on a naked flame or any incandescent material. Labelling hazardousness:</p>

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F+ - Extremely flammable



Xi - Irritant



N - Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable

R 36 Irritating to eyes.

R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

S 2 Keep out of reach of children.

S 16 Keep away from sources of ignition – No smoking.

S 23 Do not breathe vapours / spray

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 56 Dispose of this material and its container at hazardous or special waste collection point.

S 51 Use only in well-ventilated areas.

Density: 0,733 g/cm³

VOC: 2004/42/IIB(e)(840) – 636,2 g/l

Nonvolatile substances: 13,2%

15.2.

Used legislation:

European Regulation (EC) No 1907/2006 - REACH

Regulation (EC) No 648/2004 of the European Parliament and of the council of 31 March 2004 on detergents

16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R-phrases:

R 10 Flammable.

R 11 Highly flammable.

R 12 Extremely flammable.

R 15 Contact with water liberates extremely flammable gases.

R 17 Spontaneously flammable in air.

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

R 36 Irritating to eyes.

R 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.