



# MATERIAL SAFETY DATA SHEET ( 1907/2006/EC )

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Revision nr : 1

Date : 4 / 7 / 2011

Supersedes : 0 / 0 / 0

**SPS Zink 97% - spuitlak****AKP04319-1****Producer**

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[ 7:30 - 16:30 ]

**Responsible for distribution**

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NL - Nationaal Vergiftigingen Informatie Centrum (NVIC)  
[Only for doctors to inform accidental poisoning]

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : **SPS Zink 97% - spuitlak.**

Type of product : Paint aerosol.

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

Use : Pre-treatment product / Undercoat aerosol.  
Industrial and decoration painting / Paint aerosol.

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

Company identification : See producer or distributor.

**1.4. Emergency telephone number**

Phone nr : See producer or distributor.

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture****Classification EC 67/548 or EC 1999/45**

F+; R12  
R66  
R67  
N; R50-53

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Not yet regulated. (2015)

**2.2. Label elements****Labelling EC 67/548 or EC 1999/45**

Symbol(s)



: Extremely flammable.  
Dangerous for the environment.

R Phrase(s)

: R12 : Extremely flammable.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R66 : Repeated exposure may cause skin dryness or cracking.  
R67 : Vapours may cause drowsiness and dizziness.

S Phrase(s)

: S23 : Do not breathe spray.  
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S29/56 : Do not empty into drains, dispose of this material and its container at

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hazardous or special waste collection point.

S46 : If swallowed seek medical advice immediately and show this container or label.

S51 : Use only in well-ventilated areas.

**Labelling Regulation EC 1272/2008 (CLP)**

• Pictograms (Precautionary statements) : Not yet regulated. (2015)

**Further Phrases**

: Pressurised container: protect from sunlight and do not expose to temperature 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. Keep out of reach of children.

[ For professionals, a safety data sheet is available on demand. ]

**2.3. Other hazards**

**Other hazards** : Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis.  
Warning! Pressurized container.

**SECTION 3. Composition/information on ingredients**

**3.1./3.2. Substance / Preparation** : This product is defined as a mixture.

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or assigned an occupational exposure limit.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	CERTIFICATE
Zinc powder - zinc dust ( stabilized )	: 25 - 50 %	7440-66-6	231-175-3	030-002-00-7	01-2119467174-37	N; R50-53 ----- Undefined. (GHS)
Dimethyl ether	: 25 - 50 %	115-10-6	204-065-8	603-019-00-8	01-2119472128-37	F+; R12 ----- Not classified. (GHS)
	TGG 8 uur (nl) (mg/m <sup>3</sup> ) : 950 TGG 15 min (nl) (mg/m <sup>3</sup> ) : 1500					
Hydrocarbon-solvents (Aromatic)	: 10 - 12.5 %	64742-95-6	265-199-0	649-356-00-4	01-2119486773-24	R10 Xn; R65 R66 R67 Xi; R37 N; R51-53 ----- Undefined. (GHS)
	MAC [mg/m <sup>3</sup> ] : 100					
Acetone	: 10 - 12.5 %	67-64-1	200-662-2	606-001-00-8	01-2119471330-49	F; R11 R65 R67 Xi; R36 ----- Undefined. (GHS)
	TGG 8 uur (nl) (mg/m <sup>3</sup> ) : 1210 (2420 (TGG 15 min.))					
Xylene	: 2.5 - 5 %	1330-20-7	215-535-7	601-022-00-9	01-2119488216-32	R10 Xn; R20/21 Xi; R38 ----- Flam. Liq. 3; H226 Acute Tox. 4 (Dermal); H312 Acute Tox. 4 (Inhalation); H332 Skin Irrit. 2; H315
	ILV (EU) - 8 H - [mg/m <sup>3</sup> ] : ( 221 Skin. ) ILV (EU) - 8 H - [ppm] : ( 50 Skin. )					

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## SECTION 3. Composition/information on ingredients (continued)

ILV (EU) - 15 min - [mg/m<sup>3</sup>] : ( 442 Skin. )

ILV (EU) - 15 min - [ppm] : ( 100 Skin. )

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

- Inhalation : Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth.
- Skin contact : Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- Ingestion : If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

### 4.3. Indication of any immediate medical attention and special treatment needed

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

If unconscious place in recovery position and seek medical advice. Drink large quantities of water.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### Extinguishing media

- Suitable : Dry chemical. Alcohol resistant foam. Carbon dioxide. Water fog.
- Not to be used



Do not use a heavy water stream.

### 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. Appropriate breathing apparatus may be required.

Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

Flammable class : Extremely flammable.

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : No smoking. Equip cleanup crew with proper protection.
- Technical measures : Eliminate every possible source of ignition.  
Ventilate area.  
Do not breathe vapours.  
Refer to protective measures listed in sections 7 and 8



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## SECTION 6. Accidental release measures (continued)

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 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

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Due to the organic solvents' content of the preparation:

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be:

- stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.

or

- laid out flat in a single layer to dry.

or

- placed in a closed metal container soaked with water.

or

- washed out well with warm soapy water before disposal.

Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Store in accordance with local/national regulations.

Notes on joint storage:

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

Additional information on storage conditions:

Observe label precautions. Store between 5 and 30°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



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## SECTION 7. Handling and storage (continued)

### 7.3. Specific end use(s)

## SECTION 8. Exposure controls/personal protection

**Engineering Measures** : 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.

### 8.1. Control parameters

**TLV-TWA [mg/m<sup>3</sup>]** : See Heading 3 (Information on ingredients).

### 8.2 Exposure controls

#### Personal protection



- **Respiratory protection** : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
- **Skin protection** : Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.
- **Eye protection** : Use safety eyewear designed to protect against splash of liquids.
- **Hand protection** : For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils.  
Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### 9.1.a. Appearance

**Physical state** : Aerosol (contains Liquefied gas)

**Colour** : Grey.

#### 9.1.b. Odour

**Odour** : Characteristic. (White Spirit)

#### 9.1.c. Odour threshold

**Odour threshold** : Not determined.

#### 9.1.d. pH

**pH value** : Not determined.

#### 9.1.e. Melting point / Freezing point

**Freezing point [°C]** : No data available.

**Melting point [°C]** : Not determined.

#### 9.1.f. Initial boiling point - boiling range

**Initial boiling point [°C]** : Not usable. ( aerosol )

**Final boiling point [°C]**



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## SECTION 9. Physical and chemical properties (continued)

### 9.1.g. Flash point

Flash point [°C] : &lt; 0 , Not usable. ( aerosol )

### 9.1.h. Evaporation rate

Evaporation rate (ether=1) : No data available.

### 9.1.i. Flammability

Flammability : Extremely flammable aerosol

### 9.1.j. Explosion limits (lower - upper)

Explosion limits : When mixed with air and exposed to ignition source, can burn in open air or explode if confined.

Explosion limits - lower [%] : 0.7

Explosion limits - upper [%] : 18.6

### 9.1.k. Vapour pressure

Vapour pressure [hPa] : 4000 (3000 mm Hg) (@ 20 °C)

### 9.1.l. Vapour density

### 9.1.m. Relative density

Density [kg/m<sup>3</sup>] : 1172

### 9.1.n. Solubility

Solubility in water : Insoluble.

### 9.1.o. Partition coefficient : n-octanol / water

Log P octanol / water at 20°C : No data available.

### 9.1.p. Auto-ignition temperature

Auto-ignition temperature [°C] : 235 (The product does not ignites spontaneously.)

### 9.1.q. Thermal decomposition

Thermal decomposition : There are no data available on the preparation itself.  
When exposed to heat, may decompose liberating hazardous gases. ( See Heading 10. SDS )

### 9.1.r. Viscosity

Viscosity : Not determined.

### 9.1.s. Explosive Properties

Explosive Properties : Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### 9.1.t. Oxidising properties

Oxidising properties : No data available.

### 9.2. Other information

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3. Possibility of hazardous reactions



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## SECTION 10. Stability and reactivity (continued)

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

### 10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

### 10.5. Incompatible materials

See Heading 7.

### 10.6. Hazardous decomposition products

Such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

## SECTION 11. Toxicological information

**On product** : There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous mixtures Directive 1999/45/EC and classified for toxicological hazards accordingly. See MSDS Sections 2 and 15 for details.

### 11.1. Information on toxicological effects

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.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation 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.

### **On ingredients**

Substance list :	Rat inhalation LC50 [mg/m <sup>3</sup> /4h]	Rabbit dermal LD50 [mg/kg]	Rat oral LD50 [mg/kg]
Dimethyl ether [ EC No 204-065-8 ]	308	----	----
Hydrocarbon-solvents (Aromatic)	>15	>3000	>5000
Xylene [ EC No 215-535-7 ]	22.1	2000	4300
Acetone [ EC No 200-662-2 ]	39	20000	5800

## SECTION 12. Ecological information

### 12.1. Toxicity

**On product** : The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See Sections 2 and 3 for details.

### **On ingredients**

**48 H-LC50 - Daphnia magna [mg/l]** : Acetone [ EC No 200-662-2 ] : 2262

**48 H-CE50 - Daphnia magna [mg/l]** : Zinc powder - zinc dust (stabilized) [ EC No 231-175-3 ] : 2.8

Dimethyl ether [ EC No 204-065-8 ] : >4000

Hydrocarbon-solvents (Aromatic)  
[ EC No 265-199-0 ] : 7.4 (24 hrs.: 150 mg/l)

Acetone [ EC No 200-662-2 ] : 39

Xylene [ EC No 215-535-7 ] : 7.4

**96 Hour-LC50** : Zinc powder - zinc dust (stabilized) [ EC No 231-175-3 ] : 0.57 mg/l (daphnia magna)



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## SECTION 12. Ecological information (continued)

LC50-96 Hour - fish [mg/l] : Hydrocarbon-solvents (Aromatic)  
[ EC No 265-199-0 ] : 3.77  
Acetone [ EC No 200-662-2 ] : 5540  
Xylene [ EC No 215-535-7 ] : 13.5

### 12.2. Persistence and degradability

**Persistence and degradability** : No data available. May cause long-term adverse effects in the aquatic environment.  
Highly toxic to fish.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : No data available.

### 12.4. Mobility in soil

Not determined. If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

### 12.5. Results of PBT and vPvB assessment

This product is not, or does not contain, a substance that is a PBT or a vPvB.

### 12.6. Other adverse effects

**Ecological effects information** :  
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Prevent entry to sewers and public waters. May pollute public waters.  
Also poisonous for fish and plankton in water bodies. Very toxic to aquatic organisms.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

**Disposal** : Do not allow into drains or water courses.  
  
Dispose of this material and its container to hazardous or special waste collection point.

**Industrial waste number** : 08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE ( MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS.  
  
08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances.  
08 01 12 Waste paint and varnish other than those mentioned in 08 01 11.

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED  
  
15 01 04 Metallic packaging

Uncleaned packaging:  
Recommendation: Not completely empty packaging must be treated complying Directive 91/689/EEC.





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## SECTION 14. Transport information

### 14.1. UN number

- UN No. : 1950

### 14.2. UN proper shipping name

- Proper shipping name : UN1950 AEROSOLS, 2.1, 5F, (D)

### 14.3. Transport hazard class(es)

Hazard Label(s)



: Extremely flammable.

- ADR/RID

: Class : 2

- H.I. nr :

: --

### 14.4. Packing group

- ADR Packing group : Group : F

### 14.5. Environmental hazards

### 14.6. Special precautions for user

General information

: Transport within user's premises:  
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in accordance with ADR/RID, IMDG and ICAO/IATA.

**Emergency action in case of accident** : Stop the engine. No naked lights. No smoking. Mark roads and warns other road users. Keep public away from danger area.

## SECTION 15. Regulatory information

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

Ensure all national/local regulations are observed.

Other

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

VOC-EU limit

: (Cat. A/.) Not applicable.  
g/l (2010): Not applicable.  
This product contains max. VOC g/l: 666,3  
This product contains max. VOC (%): 56,85

### 15.2. Chemical safety assessment

A Chemical Safety Assessment is not executed.

## SECTION 16. Other information

Text of R-Phrases in § 3

: R10 : Flammable.  
R11 : Highly flammable.  
R12 : Extremely flammable.  
R20/21 : Harmful by inhalation and in contact with skin.**S.P.S. BV**

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**SECTION 16. Other information (continued)**

R36 : Irritating to eyes.  
R37 : Irritating to respiratory system.  
R38 : Irritating to skin.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 : Harmful : may cause lung damage if swallowed.  
R66 : Repeated exposure may cause skin dryness or cracking.  
R67 : Vapours may cause drowsiness and dizziness.

**Further information** : None.

The contents and format of this MSDS are in accordance with EEC Commission Directive 1907/2006/EC.

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