

Safety data sheet
according to 1907/2006/EC, Article 31

Date: 22.09.2011

Replaces: 29.09.2010

Ref: 0014.8.A/DR

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

- **Product identifier**
- **Trade name:** TECTANE Zinc Spray
- **Article number:** 7280006
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Anticorrosion additive
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SIROFLEX LIMITED
Dodworth Business Park, Dodworth,
Barnsley, South Yorkshire, S75 3SP
-
- Tel: 01226 771600
Fax: 01226 771601
- **Further information obtainable from:**
www.siroflex.co.uk
info@siroflex.co.uk
-
- **Emergency telephone number:** Tel: +49 (0)9366/9071-26 Monday to Thursday 7:15 to 18:00 CET

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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· Label elements**· Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

F+ Extremely flammable
N Dangerous for the environment

· Risk phrases:

- 12 Extremely flammable.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 16 Keep away from sources of ignition - No smoking.
23 Do not breathe spray.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

· Special labelling of certain preparations:

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.
Buildup of explosive mixtures possible without sufficient ventilation.
Keep out of the reach of children

· Other hazards**· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (pyrophoric) F R15-17; N R50/53 ----- Pyr. Sol. 1, H250; Water-react. 1, H260; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-50%
CAS: 75-28-5 EINECS: 200-857-2	isobutane F+ R12 ----- Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Xi R36; F R11 R66-67 ----- Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%

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CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	10-25%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335+H336	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 106-97-8 EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20; F R11 Flam. Liq. 2, H225; Acute Tox. 4, H332	≤ 2.5%

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

4 First aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.
Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
Immediately remove any clothing soiled by the product.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

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- Ensure adequate ventilation
- Keep away from ignition sources.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections** See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

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*Do not inhale gases / fumes / aerosols.**Avoid contact with the eyes and skin.*· **Respiratory protection:** *Use suitable respiratory protective device in case of insufficient ventilation.*· **Recommended filter device for short term use:** *Filter AX*· **Protection of hands:***The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*· **Material of gloves***Butyl rubber, BR**Recommended thickness of the material: ≥ 0.7 mm*· **Penetration time of glove material** *≥ 60 min**The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*· **Eye protection:***Tightly sealed goggles*· **Body protection:** *Protective work clothing*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** *Aerosol***Colour:** *Grey*· **Odour:** *Acetone-like*· **Change in condition****Melting point/Melting range:** *Undetermined.***Boiling point/Boiling range:** *$< 0^{\circ}\text{C}$* · **Flash point:** *Not applicable, as aerosol.*· **Ignition temperature:** *$> 200^{\circ}\text{C}$* · **Danger of explosion:** *Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*· **Density at 20°C:** *0.92671 g/cm³*· **Solubility in / Miscibility with****water:** *Not miscible or difficult to mix.***Organic solvents:** *67.7 %*

10 Stability and reactivity

· **Reactivity**· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*· **Possibility of hazardous reactions** *No dangerous reactions known.*· **Hazardous decomposition products:** *Carbon monoxide and carbon dioxide*

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:** Vapours have narcotic effect.

12 Ecological information

- **Toxicity**

- **Acquatic toxicity:** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Very toxic for fish

- **Additional ecological information:**

- **General notes:**

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.

Very toxic for aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 05 04	gases in pressure containers (including halons) containing dangerous substances
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15 01 04	metallic packaging
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): -
- UN-Number: 1950
- Packaging group: -
- Hazard label: 2.1
- Special marking: Symbol (fish and tree)
- UN proper shipping name: 1950 AEROSOLS
- Limited quantities (LQ) LQ2
- Transport category 2
- Tunnel restriction code D

· Maritime transport IMDG:



- IMDG Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: Yes
- Symbol (fish and tree)
- Proper shipping name: AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable

- UN "Model Regulation": UN1950, AEROSOLS, 2.1
- Environmental hazards:
Product contains environmentally hazardous substances: zinc powder -zinc dust (pyrophoric)
- Special precautions for user Warning: Gases.

15 Regulatory information

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Relevant phrases

- H220 *Extremely flammable gas.*
 H225 *Highly flammable liquid and vapour.*
 H226 *Flammable liquid and vapour.*
 H250 *Catches fire spontaneously if exposed to air.*
 H260 *In contact with water releases flammable gases which may ignite spontaneously.*
 H280 *Contains gas under pressure; may explode 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.*
 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.*
- R10 *Flammable.*
 R11 *Highly flammable.*
 R12 *Extremely flammable.*
 R15 *Contact with water liberates extremely flammable gases.*
 R17 *Spontaneously flammable in air.*
 R20 *Harmful by inhalation.*
 R20/21 *Harmful by inhalation and in contact with skin.*
 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.*

Abbreviations and acronyms:

- ADR: *Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
 RID: *Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
 IMDG: *International Maritime Code for Dangerous Goods*
 IATA: *International Air Transport Association*
 IATA-DGR: *Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*
 ICAO: *International Civil Aviation Organization*
 ICAO-TI: *Technical Instructions by the "International Civil Aviation Organization" (ICAO)*
 GHS: *Globally Harmonized System of Classification and Labelling of Chemicals*
 LC50: *Lethal concentration, 50 percent*
 LD50: *Lethal dose, 50 percent*

*** Data compared to the previous version altered.**

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