SAFETY DATA SHEET

ZINK-ALUMINIUM

Compilation date: 11.06.2013

Revision date: 09.04.15

Revision No: 1.3

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

1.1. Product identifier

Product name: ZINK-ALUMINIUM

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

1.3. Details of the supplier of the safety data sheet

Company name: Prosol Spraytechnik GmbH
Lindigstr. 8
63801 Kleinostheim
Deutschland
Tel: 06027-4610-0
Fax: 06027-4610-46
Email: info@prosol-spraytechnik.de

1.4. Emergency telephone number

Emergency tel: 060274610-0
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: F+: R12; Xi: R36; N: R51/53; -: R66; -: R67

Classification under CLP: Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Aerosol 1: H222; Skin Irrit. 2: H315; STOT SE 3: H336; -: H229; -: EUH066

Most important adverse effects: Extremely flammable. Irritating to eyes. 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.

2.2. Label elements

Label elements under CLP:

Hazard statements: H222: Extremely flammable aerosol.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H229: Pressurised container: May burst if heated
EUH066: Repeated exposure may cause skin dryness or cracking.

Signal words: Danger

[cont...]

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS09: Environmental

Precautionary statements: P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 ºC.

Label elements under CHIP:

Hazard symbols: Extremely flammable.

Irritant.

Dangerous for the environment.

Risk phrases: R12: Extremely flammable.

R36: Irritating to eyes.

R51/53: 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.

Safety phrases: S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S23: Do not breathe.

S51: Use only in well-ventilated areas.

Precautionary phrases: 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. Keep out of the reach of children.

[cont...]

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ACETONE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-662-2	67-64-1	F: R11; Xi: R36; -: R66; -: R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	20-35%

PROPANE

200-827-9	74-98-6	F+: R12 Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	10-20%

BUTANE

203-448-7	106-97-8	F+: R12 Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	10-20%

XYLENE

215-535-7	1330-20-7	-: R10; Xn: R20/21; Xi: R38	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	10-20%

ZINC POWDER - ZINC DUST (PYROPHORIC)

231-175-3	7440-66-6	-: R15; -: R17; N: R50/53	Aquatic Chronic 1: H410; Aquatic Acute 1: H400	10-20%

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

265-199-0	64742-95-6	Xn: R65; -: R10; Xi: R37; N: R51/53	Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411	5-10%

ALUMINIUM POWDER (PYROPHORIC)

231-072-3	7429-90-5	-: R15; -: R17 Substance with a Community workplace exposure limit.	Water-react. 2: H261; Pyr. Sol. 1: H250	1-5%

ETHYLBENZENE

202-849-4	100-41-4	F: R11; Xn: R20	Flam. Liq. 2: H225; Acute Tox. 4: H332	1-5%

Contains: Xylol

Section 4: First aid measures

[cont...]

4.1. Description of first aid measures

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Do not induce vomiting. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be pain and redness. There may be irritation and pain.

Ingestion: There may be difficulty swallowing.

Inhalation: No further relevant informations available.

Delayed / immediate effects: No data available.

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

Immediate / special treatment: No relevant safety data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical powder. Carbon dioxide. Water spray.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Environmental precautions: Do not let enter into water/drain.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Mix with sand or vermiculite.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep away from sources of ignition.

[cont...]

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ACETONE

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1210 mg/m3	3620 mg/m3	-	-

PROPANE

UK	1800 mg/m3	7200 mg/m3	-	-

BUTANE

UK	1450 mg/m3	1810 mg/m3	-	-

XYLENE

UK	220 mg/m3	441 mg/m3	-	-

ETHYLBENZENE

UK	441 mg/m3	552 mg/m3	-	-

8.1. DNEL/PNEC Values

Hazardous ingredients:

ACETONE

Type	Exposure	Value	Population	Effect
DNEL	Oral	62 mg/kg bw/day	Population	Systemic
DNEL	Dermal	62 mg/kg bw/day	Population	Systemic
DNEL	Dermal	186 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	200 mg/m³	Population	Systemic
DNEL	Inhalation	2420 mg/m³	Workers	Local
DNEL	Inhalation	1210 mg/m³	Workers	Systemic
DNEL	Oral (repeated dose)	11 mg/kg bw/day	Population	Systemic
DNEL	Dermal (repeated dose)	11 mg/kg bw/day	Population	Systemic
DNEL	Dermal (repeated dose)	25 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	150 mg/m³	Workers	Systemic

8.2. Exposure controls

Engineering measures: Ensure all engineering measures mentioned in section 7 of SDS are in place.

[cont...]

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves. The glove material has tu be impermeable and resistant ot the product/the substance/the preparation Selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can noct be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Tightly fitting safety goggles.

Skin protection: Protective clothing.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Silver

Odour: Characteristic odour

Solubility in water: Not miscible

Melting point/range°C: nicht bestimmt

Flammability limits %: lower: 0,7

upper: 10,9

Flash point°C: -22

Autoflammability°C: 200

Relative density: 0,815

VOC g/l: < 840 g/l

9.2. Other information

Other information: 2004/42/EG/IIB(e) (VOC max840 g/l)<840

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Bases. Acids. Oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

[cont...]

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ACETONE

IVN	RAT	LD50	5500	mg/kg
ORL	MUS	LD50	3000	mg/kg
ORL	RAT	LD50	5800	mg/kg

XYLENE

ORL	MUS	LD50	2119	mg/kg
ORL	RAT	LD50	4300	mg/kg
SCU	RAT	LD50	1700	mg/kg

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

ORL	RAT	LD50	8400	mg/kg

ETHYLBENZENE

IPR	MUS	LD50	2624	µl/kg
ORL	RAT	LD50	3500	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be pain and redness. There may be irritation and pain.

Ingestion: There may be difficulty swallowing.

Inhalation: No further relevant informations available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

[cont...]

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage.

Recovery operations: No further relevant informations available.

Waste code number: 160504

Disposal of packaging: Disposal must be made according to offical regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: 1950 Druckgaspackungen

14.3. Transport hazard class(es)

Transport class: 2 (5F)

14.4. Packing group

Packing group: nicht anwendbar

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** No

14.6. Special precautions for user

Tunnel code: D

Transport category: 2

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

[cont...]

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH066: Repeated exposure may cause skin dryness or cracking.

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

H250: Catches fire spontaneously if exposed to air.

H261: In contact with water releases flammable gases.

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.

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.

R20/21: Harmful by inhalation and in contact with skin.

R20: Harmful by inhalation.

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.

[cont...]

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.