

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

ASSA ABLOY ZA-550 Zinc Alu Spray

**Product no.**

25275C / Q002984

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Zinc Alu Spray

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

ITW Spraytec Nordic  
Priorsvej 36  
8600 Silkeborg  
Tlf.: +45 86 82 64 44  
SDS info.: www.itwinfo.dk

**Contact person**

Kundeservice: tlf 8682 6444

**E-mail**

info@itw-spraytec.dk

**SDS date**

2016-10-17

**SDS Version**

2.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### ▼ 2.1. Classification of the substance or mixture

Aerosol 1; H222, H229  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H336  
Aquatic Chronic 3; H412  
See full text of H-phrases in section 2.2.

### 2.2. Label elements

#### ▼ Hazard pictogram(s)

**Signal word**

Danger

#### ▼ Hazard statement(s)

Extremely flammable aerosol. (H222)  
Pressurised container: May burst if heated. (H229)

Causes skin irritation. (H315)  
 Causes serious eye irritation. (H319)  
 May cause drowsiness or dizziness. (H336)  
 Harmful to aquatic life with long lasting effects. (H412)

▼ **Safety statement(s)**

**General** -  
**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).  
 Do not spray on an open flame or other ignition source. (P211).  
 Do not pierce or burn, even after use. (P251).  
 Avoid breathing spray/mist. (P261).  
 Use only outdoors or in a well-ventilated area. (P271).  
**Response** -  
**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412).  
**Disposal** -

**Identity of the substances primarily responsible for the major health hazards**

-

▼ **2.3. Other hazards**

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

▼ **Additional labelling**

-

**Additional warnings**

-

**VOC**

VOC-MAX: 600 g/l, MAXIMUM VOC CONTENT (B/e): 840 g/l.

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

▼ **3.1/3.2. Substances/Mixtures**

NAME: Butane (<0,1 % butadiene (203-450-8)  
 IDENTIFICATION NOS.: CAS-no: 106-97-8 EC-no: 203-448-7 Index-no: 601-004-00-0  
 CONTENT: 25-40%  
 CLP CLASSIFICATION: Flam. Gas 1  
 H220  
 NOTE: S

NAME: propane  
 IDENTIFICATION NOS.: CAS-no: 74-98-6 EC-no: 200-827-9 Index-no: 601-003-00-5  
 CONTENT: 25-40%  
 CLP CLASSIFICATION: Press. Gas  
 H220

NAME: Acetone  
 IDENTIFICATION NOS.: CAS-no: 67-64-1 EC-no: 200-662-2 Index-no: 606-001-00-8  
 CONTENT: 10-15%  
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2, STOT SE 3  
 H225, H319, H336, EUH066  
 NOTE: SL

NAME: xylene  
 IDENTIFICATION NOS.: CAS-no: 1330-20-7 EC-no: 215-535-7 Index-no: 601-022-00-9  
 CONTENT: 10-15%  
 CLP CLASSIFICATION: Flam. Liq. 3, Acute tox. 4, Skin Irrit. 2  
 H226, H312, H315, H332  
 NOTE: SL

NAME: Hydrocarbons, C6, isoalkanes, <5% n-hexane  
 IDENTIFICATION NOS.: EC-no: 931-254-9 REACH-no: 01-2119484651-34  
 CONTENT: 5-10%  
 CLP CLASSIFICATION: Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2  
 H225, H304, H336, H411

NAME: zinc  
 IDENTIFICATION NOS.: CAS-no: 7440-66-6 EC-no: 231-175-3 Index-no: 030-001-00-1  
 CONTENT: 1-3%  
 CLP CLASSIFICATION: Aquatic Acute 1, Aquatic Chronic 1

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.  
S = Organic solvent L = European occupational exposure limit.

#### Other information

ATEmix(inhale, vapour) > 20  
ATEmix(dermal) > 2000  
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,192 - 1,788  
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = > 1 - 1,44  
N chronic (CAT 3) Sum = Sum(Ci/M(chronic)<sup>i</sup>\*25\*0.1\*10<sup>^</sup>CATi) = 5,504 - 8,256  
N acute (CAT 1) Sum = Sum(Ci/M(acute)<sup>i</sup>\*25) = 0,0384 - 0,0576

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### ▼ General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### ▼ Inhalation

Bring the person into fresh air and stay with him.

#### ▼ Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### ▼ Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

#### ▼ Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

No special

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### ▼ 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

### ▼ 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. Aerosols may explode if heated / fire.

### ▼ 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

### ▼ 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

### ▼ 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### ▼ 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### ▼ 7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

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

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### Storage temperature

< 50°C

### ▼ 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ▼ OEL

xylene (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m<sup>3</sup>

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. )

Acetone (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): 500 ppm | 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 1500 ppm | 3620 mg/m<sup>3</sup>

Butane (<0,1 % butadiene (203-450-8) (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): 600 ppm | 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 750 ppm | 1810 mg/m<sup>3</sup>

Comments: Carc (>0,1%butadien) (Carc = Capable of causing cancer. )

#### ▼ DNEL / PNEC

DNEL (zinc): 5 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects

DNEL (zinc): 83 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects

PNEC (zinc): 20.6 µg/L

Exposure: Freshwater

Duration of Exposure: Single

PNEC (zinc): 6.1 µg/L

Exposure: Marine water  
Duration of Exposure: Single  
PNEC (zinc): 117.8 mg/kg sediment dw  
Exposure: Freshwater sediment  
Duration of Exposure: Single  
PNEC (zinc): 56.5 mg/kg sediment dw  
Exposure: Marine water sediment  
Duration of Exposure: Single  
PNEC (zinc): 35.6 mg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

## 8.2. Exposure controls

- ▼ Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

- ▼ Observe general occupational hygiene standards.

### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

## Individual protection measures, such as personal protective equipment



### Generally

Use only CE marked protective equipment.

### Respiratory Equipment

If ventilation at the work place is insufficient, use a half- or whole mask with an appropriate filter or an air-supplied breathing apparatus depending on the concrete work situation and how long you will be using the product.

### Skin protection

Use appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. Chemical resistant suit with helmet/hood (Type 4, 5, 6 Category III) is recommended for spray applications. Permeation tests according to EN 369 are required in order to obtain necessary information about the efficiency of protection from the substances mentioned in section 3.

### Hand protection

Recommended: Nitrile rubber. See the manufacturer's instructions.

### Eye protection

Wear safety goggles if there is a risk of eye splash.

## SECTION 9: Physical and chemical properties

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

Form	Aerosol
Colour	Gray
Odour	Characteristic
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0,66

### ▼ Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.

Vapour pressure	No data available.
▼ <b>Data on fire and explosion hazards</b>	
Flashpoint (°C)	<0
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.
▼ <b>Solubility</b>	
Solubility in water	Insoluble
n-octanol/water coefficient	No data available.
▼ <b>9.2. Other information</b>	
Solubility in fat (g/L)	No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### ▼ 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Avoid static electricity.

### ▼ 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### ▼ Acute toxicity

Substance	Species	Test	Route of exposure	Result
zinc	Rat	LD50	Oral	>2000 mg/kg bw
zinc	Rat	LC50	Inhalation	>5.41 mg/m <sup>3</sup>
xylene	Rat	LD50	Oral	3523-4000 mg/kg
Acetone	Rat	LD50	Oral	5800 mg/kg

#### ▼ Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### ▼ Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the

area of exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Duration	Result
No data available.				

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Butane (<0,1 % butadiene (203-...))	No	2,89	No data available

### ▼ 12.4. Mobility in soil

Butane (<0,1 % butadiene (203-...: Log Koc= 2,366991, Calculated from LogPow (Moderate mobility potential.)).

### 12.5. Results of PBT and vPvB assessment

No data available

### ▼ 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### ▼ Waste

EWC code	Substances
16 05 04	gases in pressure containers (including halons) containing dangerous substances

#### Specific labelling

-

#### ▼ Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ▼ ADR/RID

14.1. UN number	1950
14.2. UN proper shipping name	AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-
Notes	-
Tunnel restriction code	D

#### ▼ IMDG

UN-no.	1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Class	2.1
PG*	-
EmS	F-D, S-U
MP**	yes
Hazardous constituent	Acetone, Hydrocarbons, C6, isoalcanes, <5% n-hexane

#### ▼ IATA/ICAO

UN-no.	1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Class	2.1

PG\*

#### ▼14.5. Environmental hazards

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

### SECTION 15: Regulatory information

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

##### ▼Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### Demands for specific education

-

##### Additional information

-

##### Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH).

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

##### ▼Full text of H-phrases as mentioned in section 3

H220 - Extremely flammable gas.

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

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.

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.

EUH066 - Repeated exposure may cause skin dryness or cracking.

##### The full text of identified uses as mentioned in section 1



-  
**Other symbols mentioned in section 2**



**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

MJH

**Date of last essential change  
(First cipher in SDS version)**

2015-09-14

**Date of last minor change  
(Last cipher in SDS version)**

2015-09-14