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Opgesteld door: NB	Bekrachtigd door: SL

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

1.1. Product identifier

Productname	Kelfort ® Zinkspray mat 400ML
Article number	1516709
Producttype	Mixture
Regulation	(EC) No. 1907/2006 and (EC) No. 1272/2008

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

Recommended use	Corrosion inhibitor
Uses advised against	None known.

1.3 Details of the supplier of the safety data sheet

Distributeur Ferney Group BV Postbus 24 1700 AA Heerhugowaard – The Netherlands T +31 (0)72-5765000 - F +31 (0)72-5765010 bedrijfsbureau@ferneygroup.nl - www.ferney.nl

1.4 Emergency telephone number

Noodtelefoon: +49(0)9366-907126 (ma-do 7.15-18.00 hour) or

: +31(0)88-7558000 (after worktime, exclusive use for doctors, pharmacists and government

institutions)

Country	Organisation/ Company	Address	Emergency number	Comments
The Netherlands	National Poisons Information Center	House post number B.00.118 PO Box 85500 3508 GA Utrecht	+31 88 755 80 00	For the sole purpose of informing healthcare professionals in the event of acute poisoning

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H335, H336)
Category 3 Respiratory irritation, Narcotic effects	
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Aerosols	Category 1 - (H222, H229)

2.2. Label elements

Contains Acetone; Hydrocarbons, C9, aromatics; Xylenes (o-, m-, p- isomers); Xylene (reaction mass of ethylbenzene and xylene)



Signal word Danger

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

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Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

P251 - Do not pierce or burn, even after use

P264 - Wash skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - 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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P391 - Collect spillage

P405 - Store locked up

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product is exempt from the requirement for a child resistant fastening and tactile warning of danger, as it is an aspiration hazard, placed on the market in the form of an aerosol or in a container with a sealed spray attachment.

2.3. Other hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

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3.2 Mixtures

Chemical name	EC No (EU Index No).	CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)		M-Factor (long-ter m)	REACH registration number
Zinc (Powder or dust, stabilised) >25 - <40 %	231-175-3 (030-001-01- 9) (030-001-00- 1)		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	•	1	1	01-2119467174- 37-xxxx
Acetone 10 - <20 %	200-662-2 (606-001-00- 8)	67-64-1	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)	•	-	-	01-2119471330- 49-XXXX
Propane 10 - <20 %	200-827-9 (601-003-00- 5)	74-98-6	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-2119486944- 21-XXXX
Xylene (reaction mass of ethylbenzene and xylene) 10 - <20 %	905-588-0	RR-45541-4	STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Flam Liq. 3 (H226)	-	-	-	01-2119488216- 32-xxxx
Butane 10 - <20 %	203-448-7 (601-004-00- 0)	106-97-8	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-2119474691- 32-XXXX
Hydrocarbons, C9, aromatics 5 - <10 %	918-668-5	-	STOT SE 3 (H335) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066) Flam. Liq. 3 (H226)	-	-	-	01-2119455851- 35-XXXX
Isobutane 5 - <10 %	200-857-2 (601-004-00- 0)	75-28-5	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-2119485395- 27-XXXX
Benzyl-dimethyl-hydroge nated tallow ammonium montmorillonite clay 0.1-<1 %	400-060-1	-	-	-	-	-	01-0000015005- 83-xxxx
Quartz 0.01 < 0.036 %	238-878-4	14808-60-7	[B]	•	-	-	[5]

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	LC50 - 4 hour -	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Zinc (Powder or dust,	231-175-3	7440-66-6	-	-	-	-	-

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Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
stabilised)	(030-001-01-9) (030-001-00-1)						
Acetone	200-662-2 (606-001-00-8)	67-64-1	5800	-	-	-	-
Propane	200-827-9 (601-003-00-5)	74-98-6	•	•	-	-	•
Xylene (reaction mass of ethylbenzene and xylene)	905-588-0	RR-45541-4	3523	1999	-	19	•
Butane	203-448-7 (601-004-00-0)	106-97-8	-	-	-	-	
Hydrocarbons, C9, aromatics	918-668-5	1	-	-	-	-	•
Isobutane	200-857-2 (601-004-00-0)	75-28-5	•	•	-	-	•
Benzyl-dimethyl-hydrog enated tallow ammonium montmorillonite clay	400-060-1	1	,	-	-	-	•
Quartz	238-878-4	14808-60-7	-	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Notes

See section 16 for more information

Chemical name	Notes
Propane - 74-98-6	U
Butane - 106-97-8	C,U
Isobutane - 75-28-5	C,U

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SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention.

Delayed pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective

equipment as required. Avoid contact with skin, eyes or clothing.

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

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and

tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure No information available.

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

Note to doctors Because of the danger of aspiration, emesis or gastric lavage should not be used unless

the risk is justified by the presence of additional toxic substances.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Dry chemical, CO2, water spray or alcohol-resistant foam.

Full water jet. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only

by specialists. Containers may explode when heated.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons. Aldehydes.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take

precautionary measures against static discharges. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders 6.2. Environmental precautions Use personal protection recommended in Section 8.

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce

vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Flood with water to complete polymerization and scrape off floor.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children. Store away from other materials. Keep/store only in original container. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

Specific use(s)

Corrosion inhibitor.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union
Acetone	TWA: 500 ppm
67-64-1	TWA: 1210 mg/m ³
Hydrocarbons, C9, aromatics	TWA: 100 mg/m ³
_	
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³

Derived No Effect Level (DNEL) No information available

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Derived No Effect Level (DN	EL)		
Zinc (Powder or dust, stabil			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	5 mg/m³	
worker Long term Systemic health effects	Dermal	83 mg/kg bw/d	
Acetone (67-64-1)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Dermal	186 mg/kg bw/d	
Short term Local health effects worker	Inhalation	2420 mg/m³	
Long term Systemic health effects worker	Inhalation	1210 mg/m³	
Videns (resetion mass of eth	authorson and videna) (DD	45544 A\	
Xylene (reaction mass of eth Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	221 mg/m³	
worker Long term Local health effects	Inhalation	221 mg/m³	
worker	Inhalation	442 mg/m³	
Short term Local health effects			
worker Long term Systemic health effects	Dermal	212 mg/kg bw/d	
Hydrocarbons, C9, aromatic	cs (
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	12.5 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	150 mg/m³	

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Quartz (14808-60-7)

Derived No Effect Level (DNEL)					
Zinc (Powder or dust, stabilised)	Zinc (Powder or dust, stabilised) (7440-66-6)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer	Inhalation	2.5 mg/m³			
Long term					
Systemic health effects					
Consumer	Dermal	83 mg/kg bw/d			
Long term					
Systemic health effects					
Consumer	Oral	0.83 mg/kg bw/d			
Long term					
Systemic health effects					

Acetone (67-64-1)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Inhalation	200 mg/m ³	
Long term			
Systemic health effects			
Consumer	Dermal	62 mg/kg bw/d	
Long term			
Systemic health effects			
Consumer	Oral	62 mg/kg bw/d	
Long term	1		
Systemic health effects			

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)				
Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Inhalation	65.3 mg/m ³			
Inhalation	260 mg/m³			
Inhalation	65.3 mg/m ³			
Inhalation	260 mg/m³			
Dermal	125 mg/kg bw/d			
Oral	12.5 mg/kg bw/d			
	Exposure route Inhalation Inhalation Inhalation Inhalation Dermal	Exposure route Derived No Effect Level (DNEL) Inhalation 65.3 mg/m³ Inhalation 260 mg/m³ Inhalation 260 mg/m³ Dermal 125 mg/kg bw/d		

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Hydrocarbons, C9, aromatics (
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Long term Systemic health effects	Dermal	7.5 mg/kg bw/d			
Consumer Long term Systemic health effects	Inhalation	32 mg/m³			

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)			
Zinc (Powder or dust, stabilised) (7440-66-6)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	20.6 μg/l		
Marine water	6.1 µg/l		
Sewage treatment plant	100 μg/l		
Freshwater sediment	235.6 mg/kg		
Marine sediment	121 mg/kg dry weight		
Soil	106.8 mg/kg dry weight		

Acetone (67-64-1)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	10.6 mg/l		
Freshwater - intermittent	21 mg/l		
Marine water	1.06 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	30.4 mg/kg dry weight		
Marine water	3.04 mg/kg dry weight		
Soil	29.5 mg/kg dry weight		

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.327 mg/l			
Marine water	0.327 mg/l			
Microorganisms in sewage treatment	6.58 mg/l			
Freshwater sediment	12.46 mg/kg dry weight			
Soil	2.31 mg/kg dry weight			

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

Hand protection Wear suitable gloves. Glove thickness > 0.7mm. Butyl rubber. Nitrile rubber. The

breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove

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supplier for information on breakthrough time for specific gloves. Gloves must conform

to standard EN 374

Skin and body protection Respiratory protection

Wear appropriate personal protective clothing to prevent skin contact.

In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator

Not applicable, Aerosol

conforming to EN 140 with Type A filter or better.

Organic gases and vapours filter conforming to EN 14387. Recommended filter type:

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid Physical state Aerosol Appearance Colour Grey

Odour No information available.

Property Remarks • Method Values

Not applicable, Aerosol .

Melting point / freezing point No information available No data None known

available

Initial boiling point and boiling

range

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point Not applicable, Aerosol . Not applicable, Aerosol

Autoignition temperature >200 None known None known

Decomposition temperature

No data available Not applicable. Insoluble in water.

pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known

Dynamic viscosity No data available

No data available. Water solubility None known No data available None known Solubility(ies) Partition coefficient No data available None known No data available None known Vapour pressure No data available None known Relative density

No data available **Bulk Density Liquid Density** 0.90 - 1.0 g/cm³

No data available None known Relative vapour density

Particle characteristics

No information available Particle Size **Particle Size Distribution** No information available

9.2. Other information

0 Solid content (%)

VOC content approx 611.2 g/L

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available Not applicable .

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of

ignition. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Incompatible with oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Stable under recommended storage conditions.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Causes serious eye irritation. (based on components). May cause redness, itching, and

pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation.

(based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may

cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause

redness and tearing of the eyes. Inhalation of high vapour concentrations may cause

symptoms like headache, dizziness, tiredness, nausea and vomiting.

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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) 11,336.60 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) 76.60 mg/l
ATEmix (inhalation-vapour) 74.10 mg/l

Component Information

Chemical name	Chemical name Oral LD50 Dermal LD50		Inhalation LC50		
Zinc (Powder or dust,	LD50 >2000 mg/kg (Rattus)	-	LC50 (4h)> 5.41 mg/Kg Dust		
stabilised)			(Rattus)		
	(OECD 401)		(OECD 403)		
Acetone	=5800 mg/kg (Rattus) 3000 mg/Kg (mouse)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h		
Propane	-	-	>800000 ppm (Rattus) 15 min		
Xylene (reaction mass of	=3500 mg/kg (Rattus)	>10000 mg/kg (Oryctolagus	=>47635 mg/L (Rattus) 4 h =		
ethylbenzene and xylene)		cuniculus)	>5000 ppm (Rattus) 4 h		
Butane	-	-	=658 g/m3 (Rattus) 4 h		
Hydrocarbons, C9, aromatics	3592 mg/Kg (Rattus) (OECD	>3160 mg/Kg (Oryctolagus	4hour >6193 mg/m³ (Rattus)		
	401)	cuniculus) (OECD 402)			
Isobutane	-	-	=658 mg/L (Rattus) 4 h		
Quartz	>2000 mg/kg (Rattus)	-	-		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

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Acetone (67-64-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			irritant
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
	EC50: 0.09 - 0.125mg/L (72h,		•	EC50: 0.139 - 0.908mg/L (48h,	1	1
7440-66-6	Pseudokirchneri ella subcapitata)	mykiss)		Daphnia magna)		
Acetone	-	LC50 96 h 4.74		EC50 48 h		
67-64-1		- 6.33 mL/L	mg/L 15 min	10294 - 17704		
		(Oncorhynchus		mg/L (Daphnia		
		mykiss)		magna Static)		
Xylene (reaction mass	EC50 (72hr) 2.2	LC50(96h) 2.6	EC50 = 0.0084	LC50(24h) 1		
of ethylbenzene and	mg/l	mg/l	mg/L 24 h	mg/l (Daphnia		
xylene)	(Selenastrum	(Oncorhynchus		magna-OECD		
RR-45541-4	capricornutum)	mykiss-OECD		202)		
		203)				
Hydrocarbons, C9,	EL50 (72h): 2.6 -	LL50 (96h): 9.2	-	EL50 (48h): 3.2		
aromatics	2.9 mg/L	mg/L		mg/L (Daphnia		
	(Pseudokirchner	(Oncorhynchus		magna) OECD		
	iella subcapitata)	mykiss)		202		

12.2. Persistence and degradability

Persistence and degradability

No information available.

Acetone (67-64-1)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready	28 days	biodegradation	91 % Readily biodegradable
Biodegradability: CO2 Evolution Test			
(TG 301 B)			

Quartz (14808-60-7)

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Component information		
Chemical name	Partition coefficient	
Acetone	-0.24	
Propane	1.09	
Xylene (reaction mass of ethylbenzene and xylene)	3.15	
Butane	2.31	
Isobutane	2.8	

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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment
Zinc (Powder or dust, stabilised)	The substance is not PBT / vPvB
Acetone	The substance is not PBT / vPvB
Propane	The substance is not PBT / vPvB
Xylene (reaction mass of ethylbenzene and xylene)	The substance is not PBT / vPvB
Butane	The substance is not PBT / vPvB
Isobutane	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or

weld containers.

European Waste Catalogue

16 05 04* gases in pressure containers (including halons) containing dangerous

substances

15 01 04 metallic packaging

Other information

Waste codes should be assigned by the user based on the application for which the

product was used

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
Labels
UN1950
Aerosols
2
2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, 2, (D), Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 190, 327, 344, 625

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Classification code 5F Tunnel restriction code (D) Limited quantity (LQ) 1 L

<u>IMDG</u>

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
2.1 UN1950
Aerosols
2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols (Zinc (Powder or dust, stabilised)), 2.1, (0°C c.c.), Marine pollutant

14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions 63,190, 277, 327, 344, 381, 959

Limited Quantity (LQ) See SP277 EmS-No. F-D, S-U

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN1950

14.2 UN proper shipping name Aerosols, flammable

14.3 Transport hazard class(es) 2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, flammable, 2.1

14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions A145, A167, A802

Limited quantity (LQ) 30 kg G ERG Code 10L

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. This product contains:

Chemical name	Reporting of suspicious transactions, disappearances and thefts	Restricted	Registration
Acetone - 67-64-1	Regulated		

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Zinc (Powder or dust, stabilised) 7440-66-6	RG 61
Acetone 67-64-1	RG 84
Propane 74-98-6	RG 84
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	RG 4bis,RG 84
Butane 106-97-8	RG 84
Isobutane 75-28-5	RG 84
Quartz 14808-60-7	RG 25

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class Storage Class 2B : Aerosols

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Chemical name	Netherlands - List of Carcinogens
Xylene (reaction mass of ethylbenzene and xylene)	Development (Category 2)
RR-45541-4	
Quartz	Present (respirable dust, crystalline)
14808-60-7	

Denmark

Registration number(s) (P-no.) No information available

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Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

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

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

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

H412 - Harmful to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)

Press. Gas (Liq.)

Press. Gas (Ref. Liq.)

Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2)

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

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Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value Sk* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - Vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	Calculation method	
mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	
Flammable aerosol	On basis of test data	

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

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Training Advice No information available

Further information No information available

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.