

# Material Safety Data Sheet

## 4tecx Zinkspray

According to regulation (EC) No. 1907/2006 (REACH) / Regulation (EC) No. 453/2010		
Supercedes Date: 15-09-2020	Revision Number: 1.01	Revision date: 11-08-2021

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

#### 1.1 PRODUCT IDENTIFICATION

Product name	Product code
4tecx Zinkspray 400ml	4058303277

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Recommended use** Paints and varnishes. Aerosol.

**Uses advised against** None known

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Supplier:	
Company name	Zevij-Necomij
Address	Touwslagerijweg 4
Zipcode/City	4906 CS Oosterhout
Country	The Netherlands
Telephone number	+31 (0) 162 426917
Fax number	+31 (0) 162 432553
E-mail address	info@zevij-necomij.com
Website	www.4tecx.com

#### 1.4 EMERGENCY TELEPHONE NUMBER:

Nationaal Vergiftigingen Informatie Centrum: 088-7558000; Only for the purpose of informing medical personnel in cases of acute intoxications

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### Section 2: Hazard identification

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Regulation (EC) No 1272/2008

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)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)
Aerosols	Category 1 - (H222, H229)

#### 2.2 LABEL ELEMENTS:

Contains Acetone, Xylene (reaction mass of ethylbenzene and xylene), Hydrocarbons, C9, aromatics, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

#### Hazard pictograms (CLP) :



#### 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.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H411 - Toxic to aquatic life with long lasting effects.
- H222 - Extremely flammable aerosol.
- H229 - Pressurised container: May burst if heated.

#### 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
- P260 - Do not breathe mist/vapours/spray
- P271 - Use only outdoors or in a well-ventilated area
- P273 - Avoid release to the environment
- P280 - Wear protective gloves and eye/face protection

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell

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 requires tactile warnings if supplied to the general public.

### 2.3 OTHER HAZARDS:

In use, may form flammable/explosive vapour-air mixture. In case of insufficient ventilation and/or through use, the formation of an 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).

## Section 3: Composition/information on ingredients

### 3.1 SUBSTANCES

Not applicable

### 3.2 MIXTURES:

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

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Acetone	200-662-2	67-64-1	15 - 25	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)		01-2119471330-49-XXXX
Xylene (reaction mass of ethylbenzene and xylene)	905-588-0	RR-45541-4	10 - <20	STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1	STOT RE 2 (H373):: C>=10%	01-2119488216-32-xxxx

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Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
				(H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Flam Liq. 3 (H226) Aquatic Chronic 3 (H412)		
Dimethyl ether	204-065-8	115-10-6	10 - <20	Flam. Gas 1 (H220) Press. Gas		01-2119472128-37-XXXX
Hydrocarbons, C9,aromatics	918-668-5	--	5 - <10	STOT SE 3 (H335) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)		01-2119455851-35-XXXX
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	927-510-4	64742-49-0	5 - <10	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)		01-2119475515-33-xxxx
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane	921-024-6	RR-100221-7	5 - <10	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam Liq. 2 (H225)		01-2119475514-35-XXXX
Zinc (Powder or dust, stabilised)	231-175-3	7440-66-6	1 - <2.5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (M Factor Acute = 1) (M Factor Chronic = 1)		01-2119467174-37-xxxx

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

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

**Section 4: First aid measures****4.1 DESCRIPTION OF FIRST-AID MEASURES:**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. Get immediate medical advice/attention.
<b>Eye contact</b>	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. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Do not breathe vapour or mist. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

<b>Symptoms</b>	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.
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**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

<b>Note to doctors</b>	Treat symptomatically. 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: Fire-fighting measures****5.1 EXTINGUISHING MEDIA:**

<b>Suitable extinguishing Media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
<b>Unsuitable extinguishing Media</b>	Full water jet.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:****Specific hazards arising from the chemicals**

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. Containers may explode when heated.

**Hazardous combustion products**

Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Aldehydes.

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### 5.3 ADVICE FOR FIREFIGHTERS:

#### Special protective equipment and precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental release measures

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

**Personal precautions** Do not breathe vapour or mist. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.  
**For emergency responders** Use personal protection recommended in Section 8.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent product from entering drains. Do not allow to enter into soil/subsoil.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

**Methods for containment** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Methods for cleaning up** Take precautionary measures against static discharges. 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:

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

## Section 7: Handling and storage

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

**Advice on safe handling** Do not breathe vapour or mist. Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Take precautionary measures against static discharges. 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. Contents under pressure. Do not puncture or incinerate cans.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off all contaminated clothing and wash it before reuse.

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### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

<b>Storage Conditions</b>	Store in accordance with the particular national regulations. Protect from sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep away from food, drink and animal feedingstuffs.
<b>Recommended storage Temperature</b>	Keep at temperatures between 10 and 20 °C

### 7.3 SPECIFIC END USES:

**Specific use(s)**  
Aerosol. Paints and varnishes.

### Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.  
Other information Observe technical data sheet.

## Section 8: Exposure controls/personal protection

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

### 8.1 CONTROL PARAMETERS:

#### Exposure Limits

Chemical name	European Union	United Kingdom
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup> STEL: 1500 ppm STEL: 3620 mg/m <sup>3</sup>
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	TWA: 50 ppm TWA: 221 mg/m <sup>3</sup> STEL: 100 ppm STEL: 442 mg/m <sup>3</sup> S*	STEL: 100 ppm STEL: 441 mg/m <sup>3</sup> TWA: 50 ppm TWA: 220 mg/m <sup>3</sup> Skin
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 766 mg/m <sup>3</sup> STEL: 500 ppm STEL: 958 mg/m <sup>3</sup>
Butane 106-97-8	-	TWA: 600 ppm TWA: 1450 mg/m <sup>3</sup> STEL: 750 ppm STEL: 1810 mg/m <sup>3</sup>
Aluminium Oxide 7429-90-5	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

Chemical name	European Union	Ireland	United Kingdom
Acetone 67-64-1	-	50 mg/L (urine - Acetone end of shift)	-
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane RR-100221-7	DNEL (Ind/Prof) 773 mg/Kg bw/day (dermal) 2035 mg/m <sup>3</sup> /8h (inhalation)	-	-



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**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)			
Acetone (67-64-1)			
Type	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/m <sup>3</sup>	
Long term Systemic health effects worker	Inhalation	1210 mg/m <sup>3</sup>	

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	221 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	221 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	442 mg/m <sup>3</sup>	
worker	Dermal	212 mg/kg bw/d	
Long term Systemic health effects			

Dimethyl ether (115-10-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	1894 mg/m <sup>3</sup>	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	2085 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	300 mg/kg bw/d	



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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane (RR-100221-7)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker DNEL	Inhalation	2035 mg/m <sup>3</sup>	
Long term Systemic health effects worker DNEL	Dermal	773 mg/kg bw/d	

Zinc (Powder or dust, stabilised) (7440-66-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	5 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	83 mg/kg bw/d	

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

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Inhalation	65.3 mg/m <sup>3</sup>	
Long term Systemic health effects			
Consumer Short term Systemic health effects	Inhalation	260 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	65.3 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	260 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	125 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	12.5 mg/kg bw/d	

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### Dimethyl ether (115-10-6)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	471 mg/m <sup>3</sup>	

### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	447 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	149 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	149 mg/kg bw/d	

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane (RR-100221-7)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	699 mg/kg bw/d	
Consumer Long term Systemic health effects	Inhalation	608 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Oral	699 mg/kg bw/d	

### Zinc (Powder or dust, stabilised) (7440-66-6)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.5 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	83 mg/kg bw/d	
Consumer	Oral	0.83 mg/kg bw/d	
Long term Systemic health effects			

**Predicted No Effect Concentration (PNEC)** No information available.

### Predicted No Effect Concentration (PNEC)

#### 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

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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

Dimethyl ether (115-10-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

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

### 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. Recommended Use: Butyl rubber. Nitrile rubber. Glove thickness > 0.7mm. 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 supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374

#### Skin and body protection

Wear suitable protective clothing. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.

#### Recommended filter type

Organic gases and vapours filter conforming to EN 14387. AX.

#### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

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### Section 9: Physical and chemical properties

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Physical state	Aerosol	
Appearance	Aerosol	
Colour	Silver	
Odour	Solvent	
Odour threshold	No information available	
Explosive properties	No data available	
Oxidising properties	No data available	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
pH	No data available	Not applicable Insoluble in water
pH (as aqueous solution)	No data available	
Melting point / freezing point	No data available	
Initial boiling point and boiling range	Not applicable, Aerosol	Not applicable, Aerosol
Flash point	Not applicable, Aerosol	Not applicable, Aerosol
Evaporation rate	No data available	
Flammability	Not applicable for liquids	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Relative vapour density	No data available	
Relative density	No data available	
Water solubility	Insoluble in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	>200 °C	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	
<b>9.2 OTHER INFORMATION:</b>		
Solid content (%)	No information available	
VOC Content (%)		
Density	0.73 - 0.74 g/cm <sup>3</sup>	

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### Section 10: Stability and reactivity

#### 10.1 REACTIVITY:

Reactivity Stable under recommended storage conditions.

#### 10.2 CHEMICAL STABILITY:

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None

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 agent

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

##### Hazardous decomposition products

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

### Section 11: Toxicological information

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

##### Information on likely routes of exposure

##### Product Information

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

##### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

##### Numerical measures of toxicity

##### Acute toxicity

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

ATEmix (dermal) 7,111.70 mg/kg

ATEmix (inhalation-vapour) 122.80 mg/l

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### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	=5800 mg/kg (Rattus)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	=3500 mg/kg (Rattus)	>10000 mg/kg (Oryctolagus cuniculus)	=>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h
Dimethyl ether 115-10-6			=164000 ppm (Rattus) 4 h
Hydrocarbons, C9,aromatics --	3592 mg/Kg (Rattus) (OECD 401)	>3160 mg/Kg (Oryctolagus cuniculus) (OECD 402)	4hour >6193 mg/m <sup>3</sup> (Rattus)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	LD50 >5840 mg/kg Rat	LD50 >2920 mg/kg (Rattus)	LC50 >23.3 mg/L (4h)(Rat, vapour) (OECD 403)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane RR-100221-7	LD50 >5840 mg/kg (Rattus)	LD50 >2800-3100 mg/kg (Rattus)	LD50 (4h) >25200 mg/m <sup>3</sup>
Zinc (Powder or dust, stabilised) 7440-66-6	LD50 >2000 mg/kg (Rattus) (OECD 401)		LC50 (4h)> 5.41 mg/Kg Dust (Rattus) (OECD 403)

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

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	May cause respiratory irritation. May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

### 11.2 INFORMATION ON OTHER HAZARDS:

#### 11.2.1 ENDOCRINE DISRUPTING PROPERTIES

No information available

#### 11.2.2 OTHER INFORMATION

##### Other adverse effects

No information available

### Section 12: Ecological information

#### 12.1 TOXICITY:

**Ecotoxicity** Toxic to aquatic life with long lasting effects.



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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)		
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	EC50 (72hr) 2.2 mg/l (Selenastrum capricornutum)	LC50(96h) 2.6 mg/l (Oncorhynchus mykiss-OECD 203)	EC50 = 0.0084 mg/L 24 h	LC50(24h) 1 mg/l (Daphnia magna-OECD 202)		
Dimethyl ether 115-10-6	-	LC50: >4.1g/L (96h, Poecilia reticulata)	-	> 4400 mg/L (Daphnia) (NEN 6501)		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	ErL50 (72h) = 10-30 mg/L (Pseudokirchneriella subcapitata)	LL50 (96h) >13.4 mg/L (Oncorhynchus mykiss) OECD 203	-	EL50 (48h) = 3.0 mg/L (Daphnia magna)		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane RR-100221-7	EL50 (72h) = 26 mg/L (Pseudokirchneriella subcapitata) OECD 201	LL50 (96h) = 12 mg/L (Oncorhynchus mykiss) OECD 203	-	EL50 (48h) = 3mg/L (Daphnia magna) OECD 202		
Zinc (Powder or dust, stabilised) 7440-66-6	EC50: 0.09 - 0.125mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =0.24mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)	1	1

### 12.2 PERSISTENCE AND DEGRADABILITY:

**Persistence and degradability** No information available.

Component Information			
Acetone (67-64-1)			
Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	biodegradation	91 % Readily biodegradable
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	98%	Readily biodegradable
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane (RR-100221-7)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	98%	Readily biodegradable

### 12.3 BIOACCUMULATIVE POTENTIAL:

**Bioaccumulation** There is no data for this product.



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### Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Acetone 67-64-1	-0.24	0.69
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	3.15	25.9
Dimethyl ether 115-10-6	-0.18	-
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane RR-100221-7	4	-

### 12.4 MOBILITY IN SOIL:

#### Mobility in soil

No information available.

### 12.5 RESULTS OF PBT AND VPVB ASSESMENT:

#### PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Acetone 67-64-1	The substance is not PBT / vPvB
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	The substance is not PBT / vPvB
Dimethyl ether 115-10-6	The substance is not PBT / vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	The substance is not PBT / vPvB
Zinc (Powder or dust, stabilised) 7440-66-6	The substance is not PBT / vPvB PBT assessment does not apply

### 12.6 OTHER ADVERSE EFFECTS:

#### Other adverse effects

No information available.

## Section 13: Disposal considerations

### 13.1 WASTE TREATMENT METHODS:

#### Waste from residues/unused products

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

#### Contaminated packaging

Handle contaminated packages in the same way as the product itself. 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.

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### Section 14: Transport information

#### Land transport (ADR/RID)

14.1 UN number or ID number	UN1950
14.2 Proper Shipping Name	Aerosols
14.3 Transport hazard class(es)	2
Labels 2.1	
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, 2, (D), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special Provisions	190, 327, 344, 625
Classification code	5F
Tunnel restriction code	(D)
Limited Quantity (LQ)	1 L

#### IMDG

14.1 UN number or ID number	UN1950
14.2 Proper Shipping Name	Aerosols (Hydrocarbons, C9,aromatics)
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols (Hydrocarbons, C9,aromatics), 2.1, Marine Pollutant
14.5 Marine pollutant	P
14.6 Special Provisions	63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ)	See SP277
EmS-No	F-D, S-U
14.7 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 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	Yes
14.6 Special Provisions	A145, A167, A802
Limited Quantity (LQ)	30 kg G
ERG Code	10L

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### Section 15: Regulatory information

#### 15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work.

#### Registration, Evaluation, Authorization, 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  $\geq 0.1\%$  (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

P3b - FLAMMABLE AEROSOLS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

##### 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 contains

Chemical name	Reporting of suspicious transactions, disappearances and thefts	Restricted
Acetone - 67-64-1	X	
Aluminium Oxide - 7429-90-5	X	

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### National regulations

#### 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

EUH066 - Repeated exposure may cause skin dryness or cracking

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

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

#### Legend

TWA TWA (time-weighted average)

STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value

\* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure

STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

#### Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 11-Aug-2021

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### Indication of changes

<b>Revision note</b>	SDS sections updated, 2, 3, 11.
<b>Training Advice</b>	When working with hazardous materials, regular training of operators is required by law
<b>Further information</b>	No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**