Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Ireland

# **SAFETY DATA SHEET**

TEKNOZINC ESI 3180 - TO-925 GREENISH GREY



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

### 1.1 Product identifier

Product name : TEKNOZINC ESI 3180 - TO-925 GREENISH GREY

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Paint.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

#### **National contact**

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : National Poisons Information Centre: 01 809 2566

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Danger

#### 2.2 Label elements

Signal word

**Hazard pictograms** 



Signal word		Daligei
Hazard statements	:	H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	P280 - Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
Response	1	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

# **SECTION 2: Hazards identification**

Disposal	•	P501 - Dispose of contents and container in accordance with all local, regional,
υσρυσαι	ľ	national and international regulations.
Hazardous ingredients	1	Propan-2-ol 1-Methoxy 2-propanol
Supplemental label elements	1	Contains 12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide . May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm	[1] [2]
zinc chloride	EC: 231-592-0 CAS: 7646-85-7	<1	Acute Tox. 4, H302 Skin Corr. 1B, H314	ATE [Oral] = 350 mg/kg	[1] [2]

TEKNOZINC ESI 3180 - TO-925 GREENISH GREY

Lab

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

SECTION 5. Composition/mornation on ingredients					
	Index: 030-003-00-2		Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	STOT SE 3, H335: C ≥ 5% M [Acute] = 10 M [Chronic] = 1	
12-hydroxy-N-[6- (12-hydroxyoctadecanamido) hexyl]octadecanamide	REACH #: 01-0000018057-71 EC: 434-430-9 CAS: 55349-01-4	<1	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following:
	pain or irritation
	watering
	redness

# SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo
	unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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

Hazards from the substance or mixture	:	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters			
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, prot	ective equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### **SECTION 6: Accidental release measures**

6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materia	I for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

#### 7.3 Specific end use(s)

Date of issue/Date of revision	: 20/06/2022	Date of previous issue	: No previous validation	Version	:1	5/18
TEKNOZINC ESI 3180 - TO-925 0	GREENISH G	BREY		Label No	:37697	7

### **SECTION 7: Handling and storage**

Recommendations Industrial sector specific solutions Not available.Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient nam	ne Exposure limit values				
Ethanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational				
	Exposure Limit Values (OELVs)				
	OELV-15min: 1000 ppm 15 minutes.				
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:				
	Advisory Occupational Exposure Limit Values (OELVs)				
	OELV-8hr: 200 ppm 8 hours.				
	OELV-15min: 400 ppm 15 minutes.				
1-Methoxy 2-propanol	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational				
	Exposure Limit Values				
	OELV-8hr: 100 ppm 8 hours.				
	OELV-8hr: 375 mg/m <sup>3</sup> 8 hours.				
	OELV-15min: 150 ppm 15 minutes.				
	OELV-15min: 568 mg/m <sup>3</sup> 15 minutes.				
tetraethyl silicate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational				
	Exposure Limit Values				
	OELV-8hr: 44 mg/m <sup>3</sup> 8 hours.				
	OELV-8hr: 5 ppm 8 hours.				
Xylene	NAOSH (Ireland, 5/2021). [xylene] Absorbed through skin.				
	Notes: EU derived Occupational Exposure Limit Values				
	OELV-8hr: 50 ppm 8 hours.				
	OELV-8hr: 221 mg/m <sup>3</sup> 8 hours.				
	OELV-15min: 100 ppm 15 minutes.				
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.				
zinc chloride	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational				
	Exposure Limit Values (OELVs)				
	OELV-8hr: 1 mg/m <sup>3</sup> 8 hours. Form: fume				
	OELV-15min: 2 mg/m <sup>3</sup> 15 minutes. Form: fume				
	his product contains ingredients with exposure limits, personal, workplace				
	mosphere or biological monitoring may be required to determine the effectiveness				
	the ventilation or other control measures and/or the necessity to use respiratory				
	otective equipment. Reference should be made to monitoring standards, such as				
	e following: European Standard EN 689 (Workplace atmospheres - Guidance for				
	e assessment of exposure by inhalation to chemical agents for comparison with				
	limit values and measurement strategy) European Standard EN 14042 (Workplace				
	mospheres - Guide for the application and use of procedures for the assessment				
	exposure to chemical and biological agents) European Standard EN 482				
	/orkplace atmospheres - General requirements for the performance of procedures				
	the measurement of chemical agents) Reference to national guidance				
	cuments for methods for the determination of hazardous substances will also be				
ree	quired.				

**DNELs/DMELs** 

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Ethanol	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	950 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
Propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
I-Methoxy 2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/ m <sup>3</sup>	Workers	Systemic
etraethyl silicate	DNEL	Short term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	14 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	14 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	56 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	56 mg/kg bw/day	Workers	Systemic
Kylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic

TEKNOZINC ESI 3180 - TO-925 GREENISH GREY

Label No :37697

ECTION 8: Expos	ure controls/p	ersonal prote	ction		
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
zinc chloride	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.25 mg/m <sup>3</sup>	General population	Systemic

#### **PNECs**

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
	> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
	Wash hands before breaks and immediately after handling the product.

# **SECTION 8: Exposure controls/personal protection**

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: Lower: 2% Upper: 19%
Flash point	: Closed cup: 14°C (57.2°F)
Auto-ignition temperature	:

#### **Auto-ignition temperature**

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Ingredient name		٥	С	°		Method	
1-Methoxy 2-propanol		2	270	51	8		
Xylene		4	32	80	9.6		
Decomposition temperature	:	Not availa	able.				
рН	:	Not availa	able.				
Viscosity	:	Kinematio	c (40°C):	>20.5 mm	²/s		
Solubility(ies)	:						
Not available.							
Solubility in water	:	Not availa	able.				
Partition coefficient: n-octanol/ water	:	Not applie	cable.				
Vapour pressure	:						

	Va	apour Pres	sure at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Ethanol	42.95	5.7					
Propan-2-ol	33	4.4					
elative density	: Not	available.					
ensity	: 1.1	g/cm³					
apour density	: Not	available.					
xplosive properties	: Not	: Not available.					
<b>Exidising properties</b> : Not available.							
article characteristics							
Median particle size	: Not	applicable.					

SECTION 10: Stabilit	SECTION 10: Stability and reactivity							
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.							
10.2 Chemical stability	: The product is stable.							
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.							
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.							
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials							
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.							

# **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours	
	LD50 Oral	Rat	7 g/kg	-	
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-	
·	LD50 Oral	Rat	5000 mg/kg	-	
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-	
	LD50 Oral	Rat	6600 mg/kg	-	
tetraethyl silicate	LD50 Oral	Rat	6270 mg/kg	-	
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours	
-	LD50 Oral	Rat	4300 mg/kg	-	
zinc chloride	LD50 Oral	Rat	350 mg/kg	-	

Conclusion/Summary

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

#### Acute toxicity estimates

Route	ATE value
	101474.09 mg/kg 461245.86 ppm 394.14 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observatio
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	,			mg	
	Eyes - Moderate irritant	Rabbit	-	0.0666666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		D. L. H		mg	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Severe irritant	Rabbit		mg 100 mg	
	Skin - Mild irritant	Rabbit		500 mg	-
1-Methoxy 2-propanol	Eyes - Mild irritant	Rabbit		24 hours 500	-
r metrioxy 2 proparior				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
tetraethyl silicate	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Severe irritant	Guinea pig	-	2 hours 2500	-
				ppm	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
V. d. a. a.		Dabbit		mg	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg 24 hours 5	-
	Eyes - Severe irritant	Rabbit	-		-
	Skin - Mild irritant	Rat	_	mg 8 hours 60 uL	_
	Skin - Moderate irritant	Rabbit		100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
zinc chloride	Skin - Severe irritant	Rabbit	-	120 hours 1	-
				%	
Conclusion/Summary	: Based on available data,	the classification of	riteria are	e not met.	1
Sensitisation					
			., .		
Conclusion/Summary	: Based on available data,	ine classification of	criteria are	e not met.	
<u>Autagenicity</u>					
Conclusion/Summary	: Based on available data,	the classification o	riteria are	e not met.	
Carcinogenicity					

- **Conclusion/Summary** : Based on available data, the classification criteria are not met. **Reproductive toxicity**
- **Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### **Teratogenicity**

Conclusion/Summary

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

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Propan-2-ol	Category 3	-	Narcotic effects
1-Methoxy 2-propanol	Category 3	-	Narcotic effects
tetraethyl silicate	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Respiratory tract irritation
zinc chloride	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Category	Route of exposure	Target organs	
Xylene		Category 2	oral, inhalation	-	
Aspiration hazard					
Product/	ingredient name		Result		
Xylene		ASPIRA	TION HAZARD - Cat	egory 1	
nformation on likely routes	: Not available.	ŀ			
of exposure Potential acute health effect	e				
Eye contact	<ul> <li>Causes serious eye iri</li> </ul>	ritation			
Inhalation	: Can cause central ner		depression. May cau	use drowsiness or	
	dizziness.	<b>, , , ,</b>	, ,		
Skin contact	: No known significant e				
Ingestion	: Can cause central ner	vous system (CNS)	depression.		
Symptoms related to the phy	vsical, chemical and toxic	cological character	istics		
Eye contact	: Adverse symptoms ma pain or irritation watering redness	ay include the followi	ng:		
Inhalation	: Adverse symptoms manausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	ay include the followi	ng:		
Skin contact	: No specific data.				
Ingestion	: No specific data.				
Delayed and immediate effe	cts as well as chronic effe	ects from short and	l long-term exposu	re	
Short term exposure				_	
Potential immediate effects	: Not available.				
Potential delayed effects Long term exposure	: Not available.				
Potential immediate effects	: Not available.				
Potential delayed effects Potential chronic health eff Not available.	: Not available. i <mark>ects</mark>				
Conclusion/Summary	: Not available.				
General	: No known significant e	effects or critical haza	ards.		
Carcinogenicity	: No known significant e	effects or critical haza	ards.		
Mutagenicity	: No known significant e	effects or critical haza	ards.		
Reproductive toxicity	: No known significant e	effects or critical haza	ards.		
11.2 Information on other ha	zards				
11.2.1 Endocrine disrupting					
Not available.					
11 2 2 Other information					

11.2.2 Other information

# **SECTION 11: Toxicological information**

Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
zinc chloride	Acute EC50 34 µg/l Fresh water	Algae - Chlorella vulgaris - Exponential growth phase	72 hours
	Acute EC50 26 µg/l Marine water	Algae - Navicula incerta	96 hours
	Acute EC50 1.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute EC50 100 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 49.99 µg/l Fresh water	Crustaceans - Moina irrasa - Neonate	48 hours
	Acute LC50 0.027 mg/l Marine water	Fish - Limanda punctatissima - Pre-larvae	96 hours
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Crustaceans - Procambarus clarkii - Intermolt	21 days
	Chronic NOEC 80 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 31.5 µg/l Fresh water	Fish - Oncorhynchus mykiss	30 days

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : This product has not been tested for biodegradation.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethanol	-0.35	-	low
Propan-2-ol	0.05	-	low
1-Methoxy 2-propanol	<1	-	low
tetraethyl silicate	3.18	-	low
Xylene	3.12	8.1 to 25.9	low
zinc chloride	-	60960	high

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Date of issue/Date of revision	: 20/06/2022	Date of previous issue	: No previous validation	Version :1	13/18
TEKNOZINC ESI 3180 - TO-925	GREENISH G	GREY		Label No :3769	97

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

	ds	
Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	1	The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	:	080111*, 200127*
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	-	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	II	Ш
14.5 Environmental hazards	No.	Yes.	No.	No.

#### **Additional information**

ADR/RID

: Special provisions

 $\underline{\textbf{Tunnel code}} \; (\text{D/E})$ 

ADN

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels. **Special provisions** 

SECTION 14: Transp	ort information
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for user	: <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime transport in bulk according to IMO instruments	: Not relevant/applicable due to nature of the product.
SECTION 15: Regula	tory information
15.1 Safety, health and enviro	onmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 190	7/2006 (REACH)
Annex XIV - List of substar	nces subject to authorisation
Annex XIV	
None of the components a	re listed.
Substances of very high	<u>concern</u>
None of the components a	re listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substance Not listed.	<u>es (1005/2009/EU)</u>
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/EU)</u>
Persistent Organic Polluta Not listed.	<u>nts</u>
<u>Seveso Directive</u> This product is controlled un <u>Danger criteria</u>	der the Seveso Directive.
Category	
P5c	
International regulations	
	ion List Schedules I, II & III Chemicals
Montreal Protocol	

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Date of issue/Date of revision: 20/06/2022Date of previous issueTEKNOZINC ESI 3180 - TO-925 GREENISH GREY

### **SECTION 15: Regulatory information**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

### **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>
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#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

# **SECTION 16: Other information**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Version	• 1
ACI 21011	

KNOZINC ESI 3180 TO-925 GREENISH GREY TO-925 GREENISH GREY

#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.