SAFETY DATA SHEET



TEKNOZINC 90 SE - All variants

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

1.1 Product identifier

: TEKNOZINC 90 SE - All variants **Product name**

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

Product 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 responsible for this SDS

: Prod-safe@teknos.com

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

: Emergency medical information: (seven days) contact National Poisons Information Telephone number

Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 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. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 **STOT RE 2, H373** Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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.

2.2 Label elements

Hazard pictograms









Signal word : Warning

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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

H410 - Very toxic to aquatic life with long lasting effects.

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SECTION 2: Hazards identification

Precautionary statements

Prevention : P280 - Wear protective gloves. 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.

P260 - Do not breathe vapour.

Response : P391 - Collect spillage.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Contains: Xylene; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin and **Hazardous ingredients**

Fatty acids, tall-oil, compds. with oleylamine

Supplemental label

elements

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

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 : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6	≥75 - ≤90	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤17	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 (vapours)] = 11 mg/ I	[1] [2]
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EC: 500-033-5 CAS: 25068-38-6	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

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SECTION 3: Composition/information on ingredients					
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤2.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3	<0.1	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373	-	[1]
Lead (Pb)	EC: 231-100-4 CAS: 7439-92-1 Index: 082-013-00-1	<0.01	Repr. 1A, H360FD Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	Repr. 1A, H360D: C ≥ 0.03% M [Acute] = 10 M [Chronic] = 100	[1] [2] [3]

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.

Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance with carcinogenic, mutagenic or reproductive toxicity properties

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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 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 following exposure or if feeling unwell. 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

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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 following exposure or if feeling unwell. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Over-exposure signs/symptoms

: Adverse symptoms may include the following: **Eye contact**

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

: No specific treatment. **Specific treatments**

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, 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 : 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 very toxic 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, protective 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".

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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. Collect spillage.

6.3 Methods and material 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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Etop 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. 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.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
₱5c	5000 tonnes	50000 tonnes
E1	100 tonnes	200 tonnes

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : Not available.

solutions

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 name	Exposure limit values
Kylene	NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m³.
Ethylbenzene	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³.
iso-butanol	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m³.
Lead (Pb)	NAOSH (Ireland, 4/2024) [inorganic lead and its compounds] Repr 1A. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 0.15 mg/m³.

Biological exposure indices

Product/ingredient name	Exposure indices
Kylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
Lead (Pb)	NAOSH (Ireland, 1/2011) BMGV: 30 μg/100 ml, Pb [in blood]. Sampling time: not critical. BLV health surveillance: >40 μg/100 ml, Pb [in blood]. Sampling time: not critical.

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SECTION 8: Exposure controls/personal protection

BLV: 70 µg/100 ml, Pb [in blood]. Sampling time: not critical.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

Xylene

Result

DNEL - General population - Long term - Oral

5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal

125 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

212 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

221 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

221 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

442 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation

442 mg/m³ Effects: Systemic

DMEL - Workers - Long term - Inhalation

442 mg/m³ <u>Effects</u>: Local

DMEL - Workers - Short term - Inhalation

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884 mg/m³
<u>Effects</u>: Systemic

Ethylbenzene

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SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Oral

1.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

15 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

77 ma/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

180 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

293 ma/m³ Effects: Local

iso-butanol DNEL - General population - Long term - Inhalation

Effects: Local

DNEL - Workers - Long term - Inhalation

310 ma/m³ Effects: Local

Fatty acids, tall-oil, compds. with oleylamine

DNEL - General population - Long term - Oral

0.012 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

0.012 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

0.024 mg/kg bw/day Effects: Systemic

PNECs

Not 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 measures

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. Contaminated work clothing should not be allowed out of the workplace. 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.

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SECTION 8: Exposure controls/personal protection

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

> 8 hours (breakthrough time): 4H / Silver Shield® gloves.

Wash hands before breaks and immediately after handling the product.

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:

Filter type (spray application):

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

Appearance

Physical state : Liquid. Colour Various **Odour** : Slight : Not available. **Odour threshold** Melting point/freezing point Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
iso-butanol	108	226.4	OECD 103
Ethylbenzene	136.1	277	OECD 104

Flammability : Not available.

Lower and upper explosion : Lower: 0.8% (xylene)

limit

Upper: 6.7% (xylene)

Flash point : Closed cup: 24°C (75.2°F)

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
is6-butanol	415	779	
Xylene	432	809.6	

Decomposition temperature : Not available. : Not applicable. pН

: Kinematic (40°C): >20.5 mm²/s **Viscosity**

Solubility(ies)

Not available.

water

Solubility in water : Not available. Partition coefficient: n-octanol/: Not applicable.

Vapour pressure

	Va	Vapour Pressure at 20°C			pour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
iso-butanol	<12.00102	<1.6	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				

Relative density : Not available. **Density** : 2.9 g/cm³ Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available. **Oxidising properties** Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

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.

: Reactive or incompatible with the following materials: 10.5 Incompatible materials

oxidising materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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

Acute toxicity

Product/ingredient name Result

Xylene Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and

Bladder - Other changes

Rat - Inhalation - LC50 Vapour

21.7 mg/l [4 hours]

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

Rabbit - Dermal - LD50

15400 mg/kg

Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

iso-butanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

19200 mg/m³ [4 hours]

Conclusion/Summary [Product]: Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FEKNOZINC 90 SE	N/A	10524.0	N/A	86.3	N/A
Xylene	4300	1100	N/A	11	N/A
Ethylbenzene	3500	15400	N/A	11	29000
iso-butanol	2460	3400	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name Result

Zinc powder - zinc dust (stabilized) Human - Skin - Mild irritant

> Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Xylene Rat - Skin - Mild irritant

> Duration of treatment/exposure: 8 hours Amount/concentration applied: 60 uL

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant Amount/concentration applied: 100 %

reaction product: bisphenol-A-Rabbit - Skin - Moderate irritant

(epichlorhydrin); epoxy resin Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 uL

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Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg

Rabbit - Skin - Mild irritant Ethylbenzene

> **Duration of treatment/exposure: 24 hours** Amount/concentration applied: 15 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Xylene Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg

reaction product: bisphenol-A-Rabbit - Eyes - Mild irritant

(epichlorhydrin); epoxy resin Amount/concentration applied: 100 mg

Ethylbenzene Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product]: Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product]: Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

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Specific target organ toxicity (single exposure)

Product/ingredient name Result

KyleneSTOT SE 3, H335 (Respiratory tract irritation)iso-butanolSTOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Kylene STOT RE 2, H373 (oral, inhalation)

Ethylbenzene STOT RE 2, H373 (hearing organs) (oral, inhalation)

Fatty acids, tall-oil, compds. with oleylamine STOT RE 2, H373

Aspiration hazard

Product/ingredient name Result

Xylene ASPIRATION HAZARD - Category 1 Ethylbenzene ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]: Not available.

General: May cause damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to

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very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

iso-butanol

Lead (Pb)

Product/ingredient name

Zinc powder - zinc dust (stabilized)

Result

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate 65 µg/l [48 hours]

Effect: Mortality

Acute - IC50 - Marine water

Algae - Diatom - Nitzschia closterium - Exponential growth

phase

65 µg/l [4 days] **Effect: Population**

Chronic - EC10 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata -Exponential growth phase 27.3 µg/l [72 hours] Effect: Population

Chronic - EC10 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: <24 hours 59.2 µg/l [21 days] Effect: Reproduction

Chronic - NOEC - Fresh water

Fish - common carp - Cyprinus carpio

Age: 13 months; Size: 10.5 cm; Weight: 27.8 g

2.6 µg/l [4 weeks] Effect: Accumulation

Acute - LC50 - Marine water

Fish - Mudskipper - Periophthalmus waltoni - Adult

12.21 µg/l [96 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia reticulata

Age: <4 hours 530 µg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - common carp - Cyprinus carpio - Juvenile (Fledgling,

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Hatchling, Weanling)

Size: 3.5 cm 0.44 ppm [96 hours] Effect: Mortality

Chronic - NOEC - Marine water

Algae - Green algae - Ulva pertusa

0.25 mg/l [96 hours] Effect: Reproduction

Chronic - NOEC - Fresh water

Fish - common carp - Cyprinus carpio

Age: 13 months; Size: 10.5 cm; Weight: 27.8 g

0.03 µg/l [4 weeks] Effect: Accumulation

Acute - EC50 - Marine water

Algae - Diatom - Chaetoceros sp. - Exponential growth phase

105 ppb [72 hours] Effect: Population

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

so-butanol 74% [28 days] - Readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
iso-butanol	-	-	Readily

Result

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Vylene	3.12	8.1 to 25.9	Low
reaction product: bisphenol-	2.64 to 3.78	31	Low
A-(epichlorhydrin); epoxy			
resin			
Ethylbenzene	3.6	-	Low
iso-butanol	1	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
 €thylbenzene	2.23	170.406
iso-butanol	1.08	12.0246

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	M	Т	vPvM	vP	vM
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No
Lead (Pb)	No	No	No	No	No	No	No

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Mobility

: Not available.

Conclusion/Summary

The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB
✓inc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
reaction product: bisphenol-A-(epichlorhydrin); epoxy	No	No	No	No	No	No	No
resin							
Ethylbenzene	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No
Lead (Pb)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Zínc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
reaction product: bisphenol-A-(epichlorhydrin); epoxy	No	No	No	No	No	No	No
resin							
Ethylbenzene	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No
Lead (Pb)	No	No	No	No	No	No	No

Conclusion/Summary **Regulation (EC) No. 1272/2008** [CLP]

: The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

European waste catalogue (EWC) : 080111*, 200127*

Packaging

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SECTION 13: Disposal considerations

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	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code (D/E)

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA

: The environmentally hazardous substance mark may appear if required by other

transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: 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: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

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SECTION 15: Regulatory information

Intrinsic property	Ingredient name		Reference number	Date of revision
Poxic to reproduction	lead	Recommended	D(2021) 4569-DC	4/12/2023

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
FEKNOZINC 90 SE	≥90	3
Lead (Pb)	<0.01	72

Labelling

Other EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable. Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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 assessment

: This product contains substances for which Chemical Safety Assessments are still required.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

⊬ 225	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.
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.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
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.

Full text of classifications [CLP/GHS]

Cute 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
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
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Repr. 1A	REPRODUCTIVE TOXICITY - Category 1A
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
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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SECTION 16: Other information

TEKNOZINC 90 SE

All variants

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.

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