

**TESSAROL primer for iron**Version  
2.0Revision Date:  
22.07.2024SDS Number:  
MATOGA00\_006  
IL/ENDate of last issue: 28.11.2023  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : TESSAROL primer for iron

Product code : Please see section 16 for detailed data

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Building and construction work  
Roller application or brushing, Non industrial spraying  
Coatings and paints, thinners, paint removersRecommended restrictions  
on use : Professional and consumer use of coatings**1.3 Details of the supplier of the safety data sheet**Company : KANSAI HELIOS Slovenija d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383  
productsafety@kansai-helios.si**1.4 Emergency telephone number**

Ambulance (972) 101

Israel Poison Information Center +972 4 854 19 00

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Specific target organ toxicity - single ex-  
posure, Category 3, Central nervous  
system H336: May cause drowsiness or dizziness.

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Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
 H336 May cause drowsiness or dizziness.  
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271 Use only outdoors or in a well-ventilated area.

**Response:**

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P405 Store locked up.

**Disposal:**

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

Hazardous components which must be listed on the label:  
 hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

**Additional Labelling**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH208 Contains rosin, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	Not Assigned 919-857-5 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304	>= 20 - < 30
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
reaction mixture of ethylbenzene, m-xylene and p-xylene	Not Assigned 905-562-9 01-2119555267-33	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 10
hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics	Not Assigned 918-481-9 01-2119457273-39	Asp. Tox. 1; H304	>= 1 - < 10
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
strontium bis(2-ethylhexanoate)	2457-02-5 219-536-3	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 1B; H360D	>= 0.1 - < 0.3
rosin	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32	Skin Sens. 1; H317	>= 0.1 - < 1
zinc 5-nitroisophthalate	60580-61-2	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

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cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360D Aquatic Acute 1; H400 Aquatic Chronic 3; H412	$\geq 0.025 - < 0.1$
Substances with a workplace exposure limit :			
talc	14807-96-6 238-877-9 01-2120140278-58		$\geq 10 - < 20$
aluminum silicate dihydrate	1332-58-7 310-194-1		$\geq 10 - < 20$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Risks : May cause drowsiness or dizziness.

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May cause drowsiness or dizziness.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect 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).

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

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## 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc	14807-96-6	TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
		Further information: Carcinogens or mutagens		
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Kaolin	1332-58-7	TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
		Further information: Carcinogens or mutagens		
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
titanium dioxide	13463-67-7	TWA (Respirable particulate matter)	0.2 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
		TWA (Respirable particulate matter)	2.5 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	TLV-TWA	100 ppm	IL OEL
		TLV-C	150 mg/m <sup>3</sup>	IL OEL
		TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		TWA	20 ppm	ACGIH
zinc oxide	1314-13-2	TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH

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		ter)		
		STEL (Respirable particulate matter)	10 mg/m <sup>3</sup>	ACGIH
rosin	8050-09-7	TWA (Inhalable particulate matter)	0.001 mg/m <sup>3</sup> (total Resin acids)	ACGIH

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	methyl hippuric acid: 1.5 g/g creatinine (Urine)		IL BEI
		Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	ACGIH BEI

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	Workers	Inhalation	Long-term systemic effects	1500 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	900 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	300 mg/kg bw/day
Calcium carbonate	Consumers	Oral	Long-term systemic effects	300 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	4.26 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	1.06 mg/m <sup>3</sup>
Talc	Workers	Inhalation	Acute systemic effects	2.16 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	3.6 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	1.08 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	1.8 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term local effects	2.27 mg/cm <sup>2</sup>
	Workers	Dermal	Long-term local effects	4.54 mg/cm <sup>2</sup>
	Consumers	Oral	Long-term systemic effects	160 mg/kg bw/day
	Consumers	Oral	Acute systemic ef-	160 mg/kg

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	Workers	Dermal	Long-term systemic effects	43.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	21.6 mg/kg bw/day
titanium dioxide	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
trizinc bis(orthophosphate)	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.83 mg/kg bw/day
reaction mixture of ethylbenzene, m-xylene and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	65.3 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	442 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	289 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	221 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	14.8 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	260 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	16 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	180 mg/kg bw/day
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0.5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.83 mg/kg

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			effects	bw/day
strontium bis(2-ethylhexanoate)	Workers	Inhalation	Long-term systemic effects	0.730 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.410 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.180 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0.210 mg/kg bw/day
rosin	Consumers	Oral	Long-term systemic effects	0.210 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	117 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	35 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	17 mg/kg bw/day
cobalt bis(2-ethylhexanoate)	Consumers	Dermal	Long-term systemic effects	10 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	10 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	0.2351 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0.037 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	0.0276 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l
Talc	Marine water	141.26 mg/l
	Fresh water	597.97 mg/l
	Marine sediment	3.13 mg/kg dry weight (d.w.)
	Fresh water sediment	31.33 mg/kg dry weight (d.w.)
titanium dioxide	Intermittent use/release	597.97 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Marine water	0.0184 mg/l
	Fresh water	0.184 mg/l
	Marine sediment	100 mg/kg dry weight (d.w.)
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.193 mg/l
trizinc bis(orthophosphate)	Soil	35.6 mg/kg dry weight (d.w.)
	Marine water	0.0061 mg/l

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	Fresh water	0.0206 mg/l
	Marine sediment	56.5 mg/kg dry weight (d.w.)
	Fresh water sediment	117.8 mg/kg dry weight (d.w.)
	Sewage treatment plant	0.1 mg/l
reaction mixture of ethylbenzene, m-xylene and p-xylene	Soil	2.31 mg/kg dry weight (d.w.)
	Marine water	0.327 mg/l
	Fresh water	0.327 mg/l
	Marine sediment	12.46 mg/kg dry weight (d.w.)
	Fresh water sediment	12.46 mg/kg dry weight (d.w.)
	Sewage treatment plant	6.58 mg/l
	Intermittent use/release	0.327 mg/l
zinc oxide	Soil	35.6 mg/kg dry weight (d.w.)
	Marine water	0.0061 mg/l
	Fresh water	0.0206 mg/l
	Marine sediment	56.5 mg/kg dry weight (d.w.)
	Fresh water sediment	117.8 mg/kg dry weight (d.w.)
	Sewage treatment plant	0.1 mg/l
strontium bis(2-ethylhexanoate)	Fresh water	0.360 - 0.440 mg/l
	Intermittent use/release	0.493 - 0.610 mg/l
	Marine water	0.036 - 0.040 mg/l
	Sewage treatment plant	71.7 - 88.52 mg/l
	Fresh water sediment	6.37 - 7.86 mg/kg dry weight (d.w.)
	Marine sediment	0.637 - 0.790 mg/kg dry weight (d.w.)
	Soil	1.06 - 1.31 mg/kg dry weight (d.w.)
rosin	Soil	0.00045 mg/kg dry weight (d.w.)
	Marine water	0.00016 mg/l
	Fresh water	0.0016 mg/l
	Marine sediment	0.0007 mg/kg dry weight (d.w.)
	Fresh water sediment	0.007 mg/kg dry weight (d.w.)
	Sewage treatment plant	1 mg/l
	Intermittent use/release	0.016 mg/l
zinc 5-nitroisophthalate	Fresh water	0.0206 - 0.0808 mg/l

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	Marine water	0.0061 - 0.0239 mg/l
	Sewage treatment plant	0.100 - 0.3922 mg/l
	Fresh water sediment	117.8 - 462 mg/kg dry weight (d.w.)
	Marine sediment	56.5 - 221 mg/kg dry weight (d.w.)
	Soil	56.5 - 221 mg/kg dry weight (d.w.)
cobalt bis(2-ethylhexanoate)	Soil	10.9 mg/kg dry weight (d.w.)
	Marine water	0.00236 mg/l
	Fresh water	0.0006 mg/l
	Marine sediment	9.5 mg/kg dry weight (d.w.)
	Fresh water sediment	9.5 mg/kg dry weight (d.w.)
	Sewage treatment plant	0.37 mg/l

## 8.2 Exposure controls

## Personal protective equipment

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles

## Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |  
butyl-rubber (> 0,6 mm; < 240 min); ISO EN374 |  
Viton® (> 0,6 mm; < 240 min); ISO EN374 |  
PE laminate (> 0,1 mm; < 240 min); ISO EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Filter type : Combined particulates and organic vapour type (A-P)

Protective measures : Wash thoroughly after handling.  
Avoid contact with skin, eyes and clothing.  
Keep away from food, drink and animal feedingstuffs.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : in accordance with the product description

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : 825.0 °C  
(calculation method (principal components, lowest value))

Flash point : 40 °C

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper flammability limit : 6 %(V)  
(calculation method (principal components, highest value))

Lower explosion limit / Lower flammability limit : 0.7 %(V)  
(calculation method (principal components, highest value))

Relative vapour density : No data available

Relative density : No data available

Density : 1.25 - 1.40 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No decomposition if stored and applied as directed.  
Hazardous decomposition products formed under fire conditions.

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Viscosity  
Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)

Flow time : > 60 s at 23 °C  
Cross section: 6 mm  
Method: ISO 2431

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

**9.2 Other information**

No data available  
VOC : (Directive 1999/13/EC)  
500 g/l

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Incompatible with strong acids and bases.

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Not classified based on available information.  
Not classified due to lack of data.

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Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

**Components:****trizinc bis(orthophosphate):**

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Acute oral toxicity : LD50 Oral (Rat): >= 8,700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27.14 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/l  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

**strontium bis(2-ethylhexanoate):**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**Skin corrosion/irritation**

Not classified based on available information.  
Not classified due to lack of data.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

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Result : irritating

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

Result : Repeated exposure may cause skin dryness or cracking.

**strontium bis(2-ethylhexanoate):**

Result : irritating

**Serious eye damage/eye irritation**

Not classified based on available information.  
Not classified due to lack of data.

**Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : Eye irritation

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

**strontium bis(2-ethylhexanoate):**

Result : Corrosive

**cobalt bis(2-ethylhexanoate):**

Result : Eye irritation

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified based on available information.

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**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

Remarks : Causes sensitisation.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

**rosin:**

Result : Probability or evidence of skin sensitisation in humans

**cobalt bis(2-ethylhexanoate):**

Result : The product is a skin sensitizer, sub-category 1A.

**Germ cell mutagenicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Genotoxicity in vitro : Result: negative  
Genotoxicity in vivo : Result: negative

**Carcinogenicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Result : negative

**Reproductive toxicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Effects on foetal development : Fertility and developmental toxicity tests did not reveal any effect on reproduction.

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**STOT - single exposure**

May cause drowsiness or dizziness.  
May cause drowsiness or dizziness.

**Components:****hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : May cause drowsiness or dizziness.

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause respiratory irritation.

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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

**STOT - repeated exposure**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

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

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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

**Aspiration toxicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

May be fatal if swallowed and enters airways.

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

May be fatal if swallowed and enters airways.

**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

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Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

**SECTION 12: Ecological information****12.1 Toxicity****Components:****trizinc bis(orthophosphate):****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Very toxic to aquatic life with long lasting effects.

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**Toxicity to fish : LC50 (Fish):  $\geq 1 - 10$  mg/lToxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 1 - 10$  mg/lToxicity to microorganisms : EC50 (Bacteria):  $\geq 1 - 100$  mg/l**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)):  $> 1,000$  mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates : EC50 :  $> 1,000$  mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)):  $1,000$  mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201EC50 (Pseudokirchneriella subcapitata (microalgae)):  $> 1,000$  mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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- Toxicity to fish : LC50 (Danio rerio (zebra fish)):  $\geq 1.793$  mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)):  $\geq 2.6$  mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)):  $\geq 0.136$  mg/l  
Exposure time: 72 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Very toxic to aquatic life with long lasting effects.

**zinc 5-nitroisophthalate:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Toxic to aquatic life with long lasting effects.

**cobalt bis(2-ethylhexanoate):****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :

Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability****Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Biodegradability : Readily biodegradable.

Photodegradation : Decomposes rapidly in contact with light.

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**hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**zinc oxide:**

Biodegradability : Result: Biodegradable

**12.3 Bioaccumulative potential****Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25.9  
Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

**12.4 Mobility in soil****Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Distribution among environmental compartments : Koc: 537, log Koc: 2.73  
Moderately mobile in soils  
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d  
Percentage dissipation: 50 % (DT50)

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:****hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

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Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information****14.1 UN number**

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

**14.2 UN proper shipping name**

ADN : PAINT  
ADR : PAINT  
RID : PAINT  
IMDG : PAINT  
IATA : Paint

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**14.3 Transport hazard class(es)**

	Class	Subsidiary risks
<b>ADN</b>	: 3	
<b>ADR</b>	: 3	
<b>RID</b>	: 3	
<b>IMDG</b>	: 3	
<b>IATA</b>	: 3	

**14.4 Packing group**

<b>ADN</b>		
Packing group	: III	
Classification Code	: F1	
Hazard Identification Number	: 30	
Labels	: 3	
<b>ADR</b>		
Packing group	: III	
Classification Code	: F1	
Hazard Identification Number	: 30	
Labels	: 3	
Tunnel restriction code	: (D/E)	
<b>RID</b>		
Packing group	: III	
Classification Code	: F1	
Hazard Identification Number	: 30	
Labels	: 3	
<b>IMDG</b>		
Packing group	: III	
Labels	: 3	
EmS Code	: F-E, <u>S-E</u>	
<b>IATA (Cargo)</b>		
Packing instruction (cargo aircraft)	: 366	
Packing instruction (LQ)	: Y344	
Packing group	: III	
Labels	: Flammable Liquids	
<b>IATA (Passenger)</b>		
Packing instruction (passenger aircraft)	: 355	
Packing instruction (LQ)	: Y344	
Packing group	: III	
Labels	: Flammable Liquids	

**14.5 Environmental hazards**

<b>ADN</b>		
Environmentally hazardous	: no	

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**ADR**

Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**14.6 Special precautions for user**

Remarks : ADR: Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3 (exemption ADR 2.2.3.1.5)  
IMDG: Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3; "transport acc. IMDG-code 2.3.2.5"

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Volatile organic compounds : Directive 1999/13/EC  
Volatile organic compounds (VOC) content: 500 g/l

**15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance.

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**SECTION 16: Other information****Full text of H-Statements**

H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.  
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.  
H360D : May damage the unborn child.

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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.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Flam. Liq. : Flammable liquids

Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

IL BEI : Israel. Safety at Work Regulations - Annex III Biological Exposure Indices

IL OEL : Israel. Safety at Work Regulations (Environmental monitoring and biological monitoring of workers)

2000/39/EC / TWA : Limit Value - eight hours

2000/39/EC / STEL : Short term exposure limit

2004/37/EC / TWA : Long term exposure limit

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

IL OEL / TLV-TWA : Threshold Limit Value - Time Weighted (TLV-TWA)

IL OEL / TLV-C : Threshold Limit Value - Ceiling (TLV-C)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China;

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IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information****Classification of the mixture:**

Flam. Liq. 3	H226
STOT SE 3	H336
Aquatic Chronic 3	H412

**Classification procedure:**

Based on product data or assessment
Calculation method
Calculation method

Material codes (bulk) for : 402540; 409381; 418668  
which the SDS is valid

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