

according to Regulation (EC) No 1907/2006

DINITROL 447 Black

Revision date: 12.11.2019

Product code: 5100

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

1.1. Product identifier

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

Use of the substance/mixture

Anti-corrosive coating

1.3. Details of the supplier of the safety data sheet

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+49 (0) 5281 9829 80	Telefax: +49 (0) 5281 9829 860
Responsible Department:	msds@dinol.com	

1.4. Emergency telephone number:

Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Rosin, colophony

ethyl acetate

Naphtha (petroleum), hydrotreated light

Signal word: Danger

Pictograms:


Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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- | | |
|------|--|
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

- | | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment. |
| P501 | This material and its container must be disposed of as hazardous waste. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P271 | Use only outdoors or in a well-ventilated area. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			30 - < 35 %
	921-024-6	649-328-00-1	01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			
8050-09-7	Rosin, colophony			5 - < 10 %
	232-475-7	650-015-00-7	01-2119480418-32	
	Skin Sens. 1; H317			
141-78-6	ethyl acetate			3 - < 5 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
64742-49-0	Naphtha (petroleum), hydrotreated light			1 - < 3 %
	927-241-2	649-328-00-1	01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412 EUH066			
100-41-4	ethylbenzene			1 - < 3 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
64742-95-6	Hydrocarbons, C9, aromatics			1 - < 3 %
	918-668-5	649-356-00-4	01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066			
64-17-5	ethanol, ethyl alcohol			1 - < 3 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
7779-90-0	trizinc bis(orthophosphate)			0.1 - < 1 %
	231-944-3	030-011-00-6	01-2119485044-40	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

- If unconscious place in recovery position and seek medical advice.
- Never give anything by mouth to an unconscious person or a person with cramps.
- In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

- Remove casualty to fresh air and keep warm and at rest.

After contact with skin

- Change contaminated clothing.

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Rinse skin with water [or shower].
If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

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

Nausea, Drowsiness, Headache.

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

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours can form explosive mixtures with air.
Formation of: Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.
Wear personal protection equipment.
Avoid contact with skin, eyes and clothes.
Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (e.g. by containment or oil barriers).
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

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7.1. Precautions for safe handling
Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Vapours are heavier than air and will spread at floor level.

Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry.

Keep away from heat. Protect against direct sunlight.

Hints on joint storage

Do not store together with: Oxidizing agents. Strong acid, strong alkalis

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
546-93-0	Magnesite, respirable dust	-	4		TWA (8 h)	WEL
8050-09-7	Rosin-based solder flux fume	-	0.05		TWA (8 h)	WEL
		-	0.15		STEL (15 min)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

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64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
Worker DNEL, long-term		inhalation	systemic	2035 mg/m ³
Worker DNEL, long-term		dermal	systemic	773 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	608 mg/m ³
Consumer DNEL, long-term		dermal	systemic	699 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	699 mg/kg bw/day
1330-20-7	xylene			
Worker DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	289 mg/m ³
Worker DNEL, acute		inhalation	local	174 mg/m ³
Worker DNEL, long-term		inhalation	systemic	77 mg/m ³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	174 mg/m ³
Consumer DNEL, acute		inhalation	local	174 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m ³
,				
8050-09-7	Rosin, colophony			
Worker DNEL, long-term		inhalation	systemic	117 mg/m ³
Worker DNEL, long-term		dermal	systemic	17 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	35 mg/m ³
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day
,				
141-78-6	ethyl acetate			
Worker DNEL, long-term		inhalation	systemic	734 mg/m ³
Worker DNEL, acute		inhalation	systemic	1468 mg/m ³
Worker DNEL, long-term		inhalation	local	734 mg/m ³
Worker DNEL, acute		inhalation	local	1468 mg/m ³
Worker DNEL, long-term		dermal	systemic	63 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	367 mg/m ³
Consumer DNEL, acute		inhalation	systemic	734 mg/m ³
Consumer DNEL, long-term		dermal	systemic	37 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,5 mg/kg bw/day
546-93-0	Magnesium carbonate			
Consumer DNEL, long-term		oral	systemic	7,23 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	7,23 mg/kg bw/day
64742-49-0	Naphtha (petroleum), hydrotreated light			
Worker DNEL, long-term		inhalation	systemic	1500 mg/m ³

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Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	900 mg/m ³
Consumer DNEL, long-term	dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	300 mg/kg bw/day
100-41-4	ethylbenzene		
Worker DNEL, long-term	inhalation	systemic	77 mg/m ³
Worker DNEL, acute	inhalation	local	293 mg/m ³
Worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	15 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day
64742-95-6	Hydrocarbons, C9, aromatics		
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³
Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
64-17-5	ethanol, ethyl alcohol		
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, acute	inhalation	local	950 mg/m ³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
7779-90-0	trizinc bis(orthophosphate)		
Worker DNEL, long-term	inhalation	systemic	5 mg/m ³
Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,5 mg/m ³
Consumer DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,83 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
8050-09-7	Rosin, colophony	
Freshwater		0,0016 mg/l
Marine water		0,00016 mg/l
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Freshwater sediment		0,007 mg/kg
Marine sediment		0,0007 mg/kg
Soil		0,00045 mg/kg
141-78-6	ethyl acetate	
Freshwater		0,24 mg/l
Marine water		0,024 mg/l
Freshwater sediment		1,15 mg/kg
Marine sediment		0,115 mg/kg
Secondary poisoning		0,20 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,148 mg/kg
100-41-4	ethylbenzene	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		13,7 mg/kg
Marine sediment		1,37 mg/kg
Secondary poisoning		0,02 mg/kg
Soil		2,68 mg/kg
Micro-organisms in sewage treatment plants (STP)		9,6 mg/l
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		0,72 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
7779-90-0	trizinc bis(orthophosphate)	
Freshwater		0,0206 mg/l

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Marine water	0,0061 mg/l
Freshwater sediment	117,8 mg/kg
Marine sediment	56,5 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,100 mg/l
Soil	35,6 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.
 If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
 If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs.
 When using do not eat or drink.
 Wash hands before breaks and after work.
 Avoid contact with skin and eyes.
 Remove contaminated, saturated clothing immediately.
 Do not breathe gas/vapour/aerosol.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):
 FKM (fluoro rubber), Breakthrough time (maximum wearing time): 480 min
 PVA (Polyvinyl alcohol), Breakthrough time (maximum wearing time): 480 min
 NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 30 min
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.
 gas filtering equipment (EN 141), Filter material/medium: A/P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
 Colour: black
 Odour: characteristic

	Test method
pH-Value:	not determined
Changes in the physical state	
Melting point:	not determined
Initial boiling point and boiling range:	88 °C
Flash point:	-12 °C DIN 51755
Flammability	
Solid:	not applicable
Gas:	not applicable

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Explosive properties

not determined

Lower explosion limits: 0,8 vol. %

Upper explosion limits: 7,7 vol. %

Ignition temperature: 200 °C

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure:
(at 20 °C) 85 hPaDensity (at 20 °C): 1,04 g/cm³ ISO 2811Water solubility: The study does not need to be conducted
because the substance is known to be
insoluble in water.**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic:
(at 20 °C) 500 mPa·s

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 51,80 %, water: 0,02 %

9.2. Other information

Solid content: 48,18 %

No information available.

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

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

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11.1. Information on toxicological effects
Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		
1330-20-7	xylene				
	oral	LD50 4300 mg/kg	Rat	GESTIS	
	dermal	LD50 >1700 mg/kg	Rabbit	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 21,7 mg/l	Rat	GESTIS	
8050-09-7	Rosin, colophony				
	oral	LD50 2800 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
141-78-6	ethyl acetate				
	oral	LD50 4935 mg/kg	Rat		
	dermal	LD50 5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 56 mg/l	Rat		
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	GESTIS	
	dermal	LD50 15400 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat		
	inhalation aerosol	ATE 1,5 mg/l			
64742-95-6	Hydrocarbons, C9, aromatics				
	oral	LD50 3592 mg/kg	Rat		
	dermal	LD50 >3160 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 6193 mg/l	Rat		
7779-90-0	trizinc bis(orthophosphate)				
	oral	LD50 > 5000 mg/kg	Rat		
	inhalation (4 h) aerosol	LC50 >5,7 mg/l	Rat		

Irritation and corrosivity

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Causes skin irritation.
Causes serious eye irritation.
Irritating to skin.

Sensitising effects

May cause an allergic skin reaction. (Rosin, colophony)
May cause sensitization by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

STOT-repeated exposure

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

Aspiration hazard

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

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane					
	Acute fish toxicity	LC50	11,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	30 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna (Big water flea)	
8050-09-7	Rosin, colophony					
	Acute fish toxicity	LC50	<10 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	911 mg/l	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC	>1 mg/l	4 d	Brachydanio rerio (zebra-fish)	
	Algae toxicity	NOEC mg/l	>1000	3 d	Pseudokirchneriella subcapitata	
	Crustacea toxicity	NOEC	750 mg/l	2 d	Daphnia magna (Big water flea)	
	Acute bacteria toxicity		(>10000 mg/l)	3 h	Activated sludge	
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	3300		Desmodesmus subspicatus	48 h
	Acute crustacea toxicity	EC50	717 mg/l	48 h	Daphnia magna (Big water flea)	
	Acute bacteria toxicity		(2900 mg/l)		Pseudomonas putida	16 h
64742-95-6	Hydrocarbons, C9, aromatics					
	Acute fish toxicity	LC50	9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	2,9 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	3,2 mg/l	48 h	Daphnia magna (Big water flea)	
7779-90-0	trizinc bis(orthophosphate)					
	Acute fish toxicity	LC50 mg/l	0,09	96 h	fish	GESTIS

12.2. Persistence and degradability

There are no data available on the mixture itself.

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		81%	28	
141-78-6	ethyl acetate				
	OECD 301D/ EEC 92/69/V, C.4-E		100 %	28	
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	3,4-5,2
1330-20-7	xylene	3
100-41-4	ethylbenzene	3,15

BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	25,9	Oncorhynchus mykiss (Rainbow trout)	

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

There are no data available on the preparation/mixture itself.
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

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Land transport (ADR/RID)

14.1. UN number:	UN1139
14.2. UN proper shipping name:	Coating solution, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Classification code:	F1
Special Provisions:	640D
Limited quantity:	5 L
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Other applicable information (land transport)

E2

Marine transport (IMDG)

14.1. UN number:	UN1139
14.2. UN proper shipping name:	COATING SOLUTION (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C9, aromatics), MARINE POLLUTANT
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Marine pollutant:	yes
Special Provisions:	-
Limited quantity:	5 L
EmS:	F-E, S-E

Other applicable information (marine transport)

E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN1139
14.2. UN proper shipping name:	COATING SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	A3
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364

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IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E2

Passenger-LQ: Y341

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: trizinc bis(orthophosphate)
Hydrocarbons, C9, aromatics**14.6. Special precautions for user**

Warning: Flammable liquids

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Naphtha (petroleum), hydrotreated light; Hydrocarbons, C9, aromatics

2004/42/EC (VOC): 51,8 % (539 g/l)

Subcategory according to Directive 2004/42/EC: Primer - Surfacer/filler and general (metal) primer, VOC limit value: 540 g/l

Additional information

Observe in addition any national regulations!

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Naphtha (petroleum), hydrotreated light

Hydrocarbons, C9, aromatics

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,8.

Abbreviations and acronymsADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)