

Safety Data Sheet

according to UK REACH Regulation

Bergolin-2K-PUR-Haftvermittler 3D203, gelb

Revision date: 17.01.2024

Product code: A1012322

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

1.1. Product identifier

Bergolin-2K-PUR-Haftvermittler 3D203, gelb

Product group: Produkt
UFI: 23Y7-VCVC-244E-Q5P3

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

Use of the substance/mixture

paint Additive

1.3. Details of the supplier of the safety data sheet

Company name: Bergolin GmbH & Co. KG
Street: Sachsenring 1
Place: D-27711 Osterholz-Scharmbeck
Telephone: +49 4795 95899 0
e-mail: info@bergolin.de
Contact person: Gefahrstoffmanagement
e-mail: sdb@bergolin.de
Internet: www.bergolin.de
Responsible Department: Sicherheitsdatenblattverwaltung

1.4. Emergency telephone

number: +49 4795 95899 0
Only available during office hours. (8-16 CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H336
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

butanone; ethyl methyl ketone
n-butyl acetate
Hydrocarbons, C9, aromatics
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P403+P235	Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Specific system in organic solvents

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
78-93-3	butanone; ethyl methyl ketone	30 - < 35 %
	201-159-0	
	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
123-86-4	n-butyl acetate	30 - < 35 %
	204-658-1	
	607-025-00-1	
	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066	
	Hydrocarbons, C9, aromatics	15 - < 20 %
	918-668-5	
	01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	5 - < 10 %
	500-033-5	
	603-074-00-8	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
3648-18-8	Diocetylzinndilaurat	< 1 %
	222-883-3	
	01-2119979527-19	
	Repr. 1B, STOT RE 1; H360D H372	

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
78-93-3	201-159-0	butanone; ethyl methyl ketone	30 - < 35 %
		inhalation: LC50 = 34 mg/l (vapours); dermal: LD50 = 7000 mg/kg; oral: LD50 = 3300 mg/kg	
123-86-4	204-658-1	n-butyl acetate	30 - < 35 %
		inhalation: LC50 = >21 mg/l (vapours); dermal: LD50 = 14112 mg/kg; oral: LD50 = 10760 mg/kg	
	918-668-5	Hydrocarbons, C9, aromatics	15 - < 20 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	5 - < 10 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg Skin Irrit. 2; H319: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
3648-18-8	222-883-3	Diocetylzinndilaurat	< 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

Remove casualty to fresh air and keep warm and at rest.
In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Change contaminated clothing.
Wash with plenty of water/?.
Do not wash with: Solvent/Thinner.

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. Seek medical advice immediately.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Carbon dioxide. Powder. Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

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Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.
Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.
Do not allow water used to extinguish fire to enter drains or waterways.

Additional information

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

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
See protective measures under point 7 and 8.

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

Other information

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).
Collect in closed containers for disposal.
Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Disposal: see section 13
SECTION 7: Handling and storage
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid release to the environment. In use, may form flammable/explosive vapour-air mixture.
Only use the material in places where open light, fire and other flammable sources can be kept away.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Provide earthing of containers, equipment, pumps and ventilation facilities. Use non-sparking tools.
Wear antistatic work clothing.

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke. Wear personal protection equipment.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

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

Hints on joint storage

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

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Further information on storage conditions

Notice the directions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

7.3. Specific end use(s)

No further relevant 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
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-93-3	butanone; ethyl methyl ketone			
Worker DNEL, long-term		dermal	systemic	1161 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	600 mg/m ³
Consumer DNEL, long-term		dermal	systemic	412 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	106 mg/m ³
Consumer DNEL, long-term		oral	systemic	31 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	systemic	600 mg/m ³
Worker DNEL, acute		inhalation	local	600 mg/m ³
Worker DNEL, long-term		inhalation	systemic	300 mg/m ³
Worker DNEL, long-term		inhalation	local	300 mg/m ³
Consumer DNEL, acute		inhalation	systemic	300 mg/m ³
Consumer DNEL, acute		inhalation	local	300 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	35,7 mg/m ³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m ³
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m ³
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Worker DNEL, long-term		inhalation	systemic	12,25 mg/m ³
Worker DNEL, acute		inhalation	systemic	12,25 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,33 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,571 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	3,571 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,75 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,75 mg/kg bw/day
3648-18-8	Diocetylzindilaurat			

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Worker DNEL, long-term	inhalation	systemic	0,004 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,001 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,001 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		
78-93-3	butanone; ethyl methyl ketone	
Freshwater		55,8 mg/l
Marine water		55,8 mg/l
Freshwater sediment		284,74 mg/kg
Marine sediment		287,7 mg/kg
Micro-organisms in sewage treatment plants (STP)		709 mg/l
Soil		22,5 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Freshwater (intermittent releases)		0,356 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,093 mg/kg
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Freshwater		0,006 mg/l
Marine water		0,0006 mg/l
Freshwater sediment		0,996 mg/kg
Marine sediment		0,0996 mg/kg
Soil		0,196 mg/kg
3648-18-8	Dioctylzinndilaurat	
Freshwater		0,002 mg/l
Marine water		0 mg/l
Freshwater sediment		0,028 mg/kg
Marine sediment		0,003 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,006 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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

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Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Observe the wear time limits as specified by the manufacturer.

Suitable material: butyl rubber or Viton (necessarily consider the permanence of the material and See information supplied by the manufacturer.)

Breakthrough time (maximum wearing time): ____ min.

Use protective skin cream before handling the product.

Skin protection

Wear antistatic work clothing. (Natural fibres (e.g. cotton)/ heat-resistant synthetic fibres)

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range:	80 °C
Flash point:	1 °C DIN 53213
Lower explosion limits:	0,7 vol. %
Upper explosion limits:	15 vol. %
Auto-ignition temperature:	404 °C
Flow time: (at 20 °C)	14 6 DIN EN ISO 2431
Vapour pressure: (at 20 °C)	105 hPa
Vapour pressure: (at 50 °C)	126 hPa
Density (at 20 °C):	0,93 g/cm ³ DIN 53217

9.2. Other information

Other safety characteristics

Solvent separation test:	<3 % (ADR/RID)
Solvent content:	76,82 %
Solid content:	23,18 %

Further Information

SECTION 10: Stability and reactivity

10.2. Chemical stability

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The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

In case of warming: Thermal decomposition.

10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone				
	oral	LD50 mg/kg	3300	Ratte	
	dermal	LD50 mg/kg	7000	Kaninchen	
	inhalation (4 h) vapour	LC50	34 mg/l	Ratte	
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	10760	Ratte	
	dermal	LD50 mg/kg	14112	Kaninchen	OECD 402
	inhalation (4 h) vapour	LC50	>21 mg/l	Ratte	OECD 403
	Hydrocarbons, C9, aromatics				
	oral	LD50 mg/kg	>2000	Ratte	
	dermal	LD50 mg/kg	>2000	Kaninchen	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rat	
3648-18-8	Dioctylzinndilaurat				
	oral	LD50 mg/kg	>2000	Ratte	
	dermal	LD50 mg/kg	>2000	Ratte	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700))

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone; n-butyl acetate)

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience

Following inhalation:

May cause respiratory irritation. Potential hazards: Liver and kidney damage. Depression of the central nervous system. Symptoms: Headache. Dizziness. Causes drowsiness or dizziness. unconsciousness.

After skin contact:

The product is skin resorptive. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Following eye contact:

Irritating to eyes. (reversible.)

after ingestion:

Nausea. vomiting. gastro-intestinal ailment.

Further information

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

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone					
	Acute fish toxicity	LC50 mg/l	3320	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	5091	48 h	Daphnia magna	
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	18 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50	675 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	200 mg/l	3 d	Desmodesmus subspicatus	
	Crustacea toxicity	NOEC	23 mg/l	21 d	Daphnia magna	OECD 211
	Hydrocarbons, C9, aromatics					
	Acute fish toxicity	LL50	9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EL50	3,2 mg/l	48 h	Daphnia magna (Big water flea)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)					
	Acute fish toxicity	LC50	1,2 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	>11 mg/l	72 h	Scenedesmus capricornutum	
	Acute crustacea toxicity	EC50	2,8 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	4,2 mg/l	3 d	Scenedesmus capricornutum	
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	
3648-18-8	Diocetylzinndilaurat					
	Acute fish toxicity	LC50 mg/l	>0,09	96 h		
	Acute algae toxicity	ErC50 mg/l	>0,002	72 h		
	Acute crustacea toxicity	EC50 mg/l	>0,21	48 h		

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-93-3	butanone; ethyl methyl ketone			
		98%	28	
123-86-4	n-butyl acetate			
	OECD 301D	80%	5	
	Readily biodegradable (according to OECD criteria).			
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
	OECD Guideline 301 F (Manometric Respirometry)	82%	28	
	under test conditions no biodegradation observed			

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12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	2,3

BCF

CAS No	Chemical name	BCF	Species	Source
123-86-4	n-butyl acetate	15,3		
3648-18-8	Diocetylzinndilaurat	<100		

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

Do not allow to enter into surface water or drains.
Remove according to the regulations.

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

Contaminated packaging

Completely emptied packages can be recycled.
Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1263
<u>14.2. UN proper shipping name:</u>	Paint
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	II
Hazard label:	3



Classification code:	F1
Special Provisions:	163 640D 650
Limited quantity:	5 L
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

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Other applicable information (land transport)

E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: Paint
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: 163
 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 or ID number: UN 1263
14.2. UN proper shipping name: Paint
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: A3 A72
 Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E2

Passenger-LQ: Y341

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
 Dioctylzinndilaurat

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40, Entry 75

2010/75/EU (VOC): 76,82 % (714,426 g/l)

2004/42/EC (VOC): 76,82 % (714,426 g/l)

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Information according to 2012/18/EU
(SEVESO III):

P5c FLAMMABLE LIQUIDS

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9,15.

Abbreviations and acronyms

ADR - Accord européen relatif transport des marchandises dangereuses par route ATE - Acute Toxicity Estimate / Schätzwert akuter Toxizität; BCF - Biokonzentrationsfaktor (Bio-Concentration Factor); CAS - Chemical Abstracts Service; CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures; CMR - Carcinogenität, Mutagenität, Reproduktionstoxizität; ECHA - European Chemicals Agency / Europäische Chemikalienagentur (in Helsinki); EC50 - Effective Concentration 50%; ErC50 - Average specific growth rate; EINECS - European Inventory of Existing Commercial Chemical Substances; DNEL - „Derived No-Effect Level“; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; LC50 - Lethal Concentration 50%; LD50 - Lethal dose 50%; NOAEC/L - No Observed Adverse Effect Concentration / Level; NOEC - No Observed Effect Concentration; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative, Toxic (persistent, bioakkumulativ, toxisch); PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation and Authorization of Chemicals; RID - Règlement International concernant le transport de marchandises dangereuses par chemin de fer; SCL - Specific Concentration Level; STOT - Specific Target Organ Toxicity; SVHC - Stoff sehr hoher Besorgnis (Substance of Very High Concern); VOC - Volatile Organic Compounds; WGK - Wassergefährdungsklasse

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Asp. Tox. 1; H304	Calculation method
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 3; H412	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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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

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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.)