

Seajet 034 / Emperor A Antifouling Spray 400 ml black

Print date 29.07.2024
Revision date 08.04.2024
Version 1.2 (en)
replaces version of 31.05.2023 (1.1)

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

*** 1.1 Product identifier**

Trade name/designation Seajet 034 / Emperor A Antifouling Spray 400 ml black
Art-Nr. 1.0401.02233.17502

Hazard components

butanone, Reaction Mass of Ethylbenzene and Xylene, colophony, Hydrocarbons, C10, aromatics, <1% naphthalene

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

Use of the substance/mixture
paintwork

1.3 Details of the supplier of the safety data sheet

Supplier

Yachticon A. Nagel GmbH
Bürgermeister-Bombeck-Str. 1,
D-22851 Norderstedt
Telephone +49 40 511 37 80
Telefax +49 40 51 74 37
E-mail yachticon@yachticon.de
Website www.yachticon.de

Department responsible for information:
Telephone +49 40 511 37 80
Telefax +49 40 51 74 37

E-mail (competent person):
yachticon@yachticon.de

Manufacturer

CHUGOKU PAINTS B.V.
Sluisweg 12
NL-4794 SW Heijningen
Telephone +31-167-526100
Telefax Fax +31-167-522059
E-mail msdsregistration@cmpeurope.eu
Website www.chugokupaints.com

Department responsible for information:
Telephone +31-167-526100

1.4 Emergency telephone number

Giftinformationszentrale Berlin +49(0)30 / 19240

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Aerosol 1, H222

Aerosol 1, H229

Skin Irrit. 2, H315

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

Eye Irrit. 2, H319
Skin Sens. 1, H317
STOT SE 3, H336
STOT RE 2, H373
Asp. Tox. 1, H304
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

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.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

Hazard statements for environmental hazards

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

*

Remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Without adequate ventilation formation of explosive mixtures possible.
Caution! Spraying may produce hazardous respirable droplets. Do not inhale aerosol or mist.

* **2.2 Label elements**

* **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Hazard components

butanone, Reaction Mass of Ethylbenzene and Xylene, colophony, Hydrocarbons, C10, aromatics, <1% naphthalene

Hazard pictograms



GHS02



GHS07



GHS08



GHS09

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

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* **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P312 Call a POISON CENTER/doctor/if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental hazard information

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards

Results of PBT and vPvB assessment

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

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

3.1 Substances

not applicable

* **3.2 Mixtures**

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
78-93-3	201-159-0	606-002-00-3	butanone	10 < 25 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336; EUH066	
115-10-6	204-065-8	603-019-00-8	dimethyl ether	10 < 25 weight-%	Flam. Gas 1; H220 Press. Gas; EUH018	
	905-588-0		Reaction Mass of Ethylbenzene and Xylene	10 < 25 weight-%	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
1111-67-7	214-183-1	029-015-00-0	copper thiocyanate	10 < 25 weight-%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410; EUH032	M=10 (Aquatic Acute 1) M=10 (Aquatic Chronic 1)
8050-09-7	232-475-7	650-015-00-7	colophony	5 < 10 weight-%	Skin Sens. 1; H317	
1314-13-2	215-222-5	030-013-00-7	zinc oxide	2.5 < 5 weight-%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
107-98-2	203-539-1	603-064-00-3	1-methoxy-2-propanol	2.5 < 5 weight-%	Flam. Liq. 3; H226 STOT SE 3; H336	

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CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1189173-42-9	918-811-1		Hydrocarbons, C10, aromatics, <1% naphthalene	2.5 < 5 weight-%	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411; EUH066	
1330-78-5	809-930-9		Reaction mass of 3-methyl-phenyl-di-4-methylphenyl-phosphate and 4-methylphenyl di-3-methylphenyl phosphate and tris (3-methylphenyl) phosphate.	1 < 2.5 weight-%	Repr. 2; H361fd Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)
13463-41-7	236-671-3	613-333-00-7	pyrithione zinc	0.025 < 0.25 weight-%	Repr. 1B; H360D Acute Tox. 2; H330 Acute Tox. 3; H301 STOT RE 1; H372 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1000 (Aquatic Acute 1) M=10 (Aquatic Chronic 1) ATE(oral): 221 mg/kg bw ATE(Acute inhalation toxicity (dust/mist)): 0.14 mg/L

REACH No.	Substance name
01-2119457290-43-XXXX	butanone
01-2119472128-37-XXXX	dimethyl ether
01-2119488216-32-XXXX	Reaction Mass of Ethylbenzene and Xylene
01-2119480418-32-XXXX	colophony
01-2119463881-32-XXXX	zinc oxide
01-2119457435-35-XXXX	1-methoxy-2-propanol
01-2119463583-34-XXXX	Hydrocarbons, C10, aromatics, <1% naphthalene
01-2119531335-46-XXXX	Reaction mass of 3-methyl-phenyl-di-4-methylphenyl-phosphate and 4-methylphenyl di-3-methylphenyl phosphate and tris (3-methylphenyl) phosphate.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
 Remove contaminated, saturated clothing immediately.

Following inhalation

If unconscious, place and transport in stable lateral position.
 Provide fresh air.
 Medical treatment necessary.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.
 Remove contact lenses.
 In the event of symptoms receive medical treatment.

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Following ingestion

Do NOT induce vomiting.
Rinse mouth immediately and drink plenty of water.
In the event of symptoms immediately seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam
Dry extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

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

*** Hazardous combustion products**

Fire gas of organic material has to be classed invariably as respiratory poison.
Formation of explosive gas mixture with air.
In the event of fire the following can be released:
Carbon monoxide
Phosphorus oxides
Carbon dioxide (CO₂)
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.
Chemical protection suit

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
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

For non-emergency personnel

Ensure adequate ventilation / exhaustion at the workplace.
Avoid skin and eye contact.
Use personal protection equipment.

6.2 Environmental precautions

If the product contaminates soil, waterways or drains inform the corresponding authorities.
Do not allow to enter into surface water or drains.
Suppress gases/vapours/mists with water spray jet.

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6.3 Methods and material for containment and cleaning up

For containment

Ensure adequate ventilation.
Suitable material for taking up:
Universal binder
After taking up the material dispose according to regulation.

6.4 Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

*** SECTION 7: Handling and storage**

*** 7.1 Precautions for safe handling**

*** Protective measures**

Keep container tightly closed.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
Keep away from heat and direct sunlight.
Keep away from sources of ignition - No smoking.
Vapours can form explosive mixtures with air.
Do not spray against a flame or on a red-hot object.
Avoid effect of heat.
Avoid:
Eye contact
Skin contact
Do not inhale gases/vapours/aerosols.
Do not put any product-impregnated cleaning rags into your trouser pockets.

Advices on general occupational hygiene

Thorough skin-cleansing after handling the product.
Apply skin care products after work.
When using do not eat, drink, smoke, sniff.
Remove contaminated, saturated clothing immediately.
Work in rooms with good ventilation.
Wash hands before breaks and after work.
Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

Further information on storage conditions

The official regulations on storing pressurized gas containers must be observed.
Protect from direct solar radiation.
Protect from extreme heat and cold.
Keep in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

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

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
78-93-3	201-159-0	Butanone	200 [ml/m ³ (ppm)] 600 [mg/m ³] Short-term(ml/m ³) 300 Short-term(mg/m ³) 900 2000/39/EC
107-98-2	203-539-1	1-Methoxypropanol-2	100 [ml/m ³ (ppm)] 375 [mg/m ³] Short-term(ml/m ³) 150 Short-term(mg/m ³) 568 skin resorptive 2000/39/EC
115-10-6	204-065-8	Dimethylether	1000 [ml/m ³ (ppm)] 1920 [mg/m ³] 2000/39/EC
107-98-2	203-539-1	1-Methoxypropan-2-ol	100 [ml/m ³ (ppm)] 375 [mg/m ³] Short-term(ml/m ³) 150 (1) Short-term(mg/m ³) 568 (1) (1) 15 minutes reference period (IE)
78-93-3	201-159-0	Butan-2-one	200 [ml/m ³ (ppm)] 600 [mg/m ³] Short-term(ml/m ³) 300 (1) Short-term(mg/m ³) 900 (1) (1) 15 minutes reference period (IE)
115-10-6	204-065-8	Dimethyl ether	1000 [ml/m ³ (ppm)] 1920 [mg/m ³] (IE)
1314-13-2	215-222-5	Zinc oxide, fume or respirable dust	2 [mg/m ³] Short-term(mg/m ³) 10 (1) (1) 15 minutes reference period (IE)
107-98-2	203-539-1	1-Methoxypropan-2-ol	100 [ml/m ³ (ppm)] 375 [mg/m ³] Short-term(ml/m ³) 150 Short-term(mg/m ³) 560 (UK)
78-93-3	201-159-0	Butan-2-one	200 [ml/m ³ (ppm)] 600 [mg/m ³] Short-term(ml/m ³) 300 Short-term(mg/m ³) 899 (UK)
115-10-6	204-065-8	Dimethyl ether	400 [ml/m ³ (ppm)] 766 [mg/m ³] Short-term(ml/m ³) 500 Short-term(mg/m ³) 958 (UK)

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CAS No	EC No	Substance name	occupational exposure limit value
8050-09-7	232-475-7	Rosin-based solder flux fume (colophony)	0,05 [mg/m ³] Short-term(mg/m ³) 0,15 (UK)
1314-13-2	215-222-5	Zinc oxide, fume or respirable dust	5 [mg/m ³] Short-term(mg/m ³) 10 (UK)

* **DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
	Reaction Mass of Ethylbenzene and Xylene	289 mg/m ³	acute inhalative (local)	
	Reaction Mass of Ethylbenzene and Xylene	180 mg/kg	long-term dermal (systemic)	
	Hydrocarbons, C10, aromatics, <1% naphthalene	12.5 mg/kg bw/day	long-term dermal (systemic)	
	Hydrocarbons, C10, aromatics, <1% naphthalene	151 mg/m ³	long-term inhalative (systemic)	
	Reaction Mass of Ethylbenzene and Xylene	77 mg/m ³	long-term inhalative (systemic)	
78-93-3	butanone	1161 mg/kg	long-term dermal (systemic)	
78-93-3	butanone	600 mg/m ³	long-term inhalative (systemic)	
8050-09-7	colophony	25 mg/kg bw/day	long-term dermal (systemic)	
8050-09-7	colophony	176.32 mg/m ³	long-term inhalative (systemic)	

* **DNEL Consumer**

CAS No	Substance name	DNEL value	DNEL type	Remark
	Hydrocarbons, C10, aromatics, <1% naphthalene	7.5 mg/kg bw/day	Long-term – oral, systemic effects	
	Reaction Mass of Ethylbenzene and Xylene	1.6 mg/kg bw/day	Long-term – oral, systemic effects	
	Reaction Mass of Ethylbenzene and Xylene	108 mg/kg	long-term dermal (systemic)	
	Hydrocarbons, C10, aromatics, <1% naphthalene	7.5 mg/kg bw/day	long-term dermal (systemic)	
	Hydrocarbons, C10, aromatics, <1% naphthalene	32 mg/m ³	long-term inhalative (systemic)	
	Reaction Mass of Ethylbenzene and Xylene	14.8 mg/m ³	long-term inhalative (systemic)	
78-93-3	butanone	31 mg/kg	Long-term – oral, systemic effects	
78-93-3	butanone	412 mg/kg	long-term dermal (systemic)	
78-93-3	butanone	106 mg/m ³	long-term inhalative (systemic)	

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CAS No	Substance name	DNEL value	DNEL type	Remark
8050-09-7	colophony	15 mg/kg bw/day	Long-term – oral, systemic effects	
8050-09-7	colophony	15 mg/kg bw/day	long-term dermal (systemic)	
8050-09-7	colophony	52.174 mg/m ³	long-term inhalative (systemic)	

*

PNEC

CAS No	Substance name	PNEC Value	PNEC type	Remark
	Reaction Mass of Ethylbenzene and Xylene	0.327 mg/L	aquatic, freshwater	
	Reaction Mass of Ethylbenzene and Xylene	0.327 mg/L	aquatic, marine water	
	Reaction Mass of Ethylbenzene and Xylene	12.46 mg/kg dw	sediment, freshwater	
	Reaction Mass of Ethylbenzene and Xylene	12.46 mg/kg dw	sediment, marine water	
	Reaction Mass of Ethylbenzene and Xylene	6.58 mg/L	sewage treatment plant (STP)	
	Reaction Mass of Ethylbenzene and Xylene	2.31 mg/kg dw	soil	
1314-13-2	zinc oxide	0.0206 mg/L	aquatic, freshwater	
1314-13-2	zinc oxide	0.0061 mg/L	aquatic, marine water	
1314-13-2	zinc oxide	117.8 mg/kg	sediment, freshwater	
1314-13-2	zinc oxide	56.5 mg/kg	sediment, marine water	
1314-13-2	zinc oxide	35.6 mg/kg	soil	
78-93-3	butanone	55.8 mg/L	aquatic, freshwater	
78-93-3	butanone	55.8 mg/L	aquatic, intermittent release	
78-93-3	butanone	55.8 mg/L	aquatic, marine water	
78-93-3	butanone	1000 mg/kg	Secondary Poisoning	
78-93-3	butanone	284.74 mg/kg dw	sediment, freshwater	
78-93-3	butanone	284.7 mg/kg dw	sediment, marine water	
78-93-3	butanone	709 mg/L	sewage treatment plant (STP)	
78-93-3	butanone	22.5 mg/kg dw	soil	
8050-09-7	colophony	0.0016 mg/L	aquatic, freshwater	
8050-09-7	colophony	0.0002 mg/L	aquatic, marine water	
8050-09-7	colophony	1000 mg/L	sewage treatment plant (STP)	

*** 8.2 Exposure controls**

Appropriate engineering controls

Technical measures to prevent exposure

Ensure good ventilation, where necessary use fume hood.

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* **Personal protection equipment**

Eye/face protection

tightly fitting goggles

* **Hand protection**

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

By short-term hand contact

Butyl caoutchouc (butyl rubber)

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Body protection:

Protective clothing

Respiratory protection

Not necessary if the ventilation is sufficient.

If gases or aerosols occur: Short term: filter apparatus, filter A / P2

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

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

Physical state

Aerosol

Colour

various, depending on coloration

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	-24.9 °C		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 18.6 Vol-%		CAS No115-10-6 dimethyl ether
Lower and upper explosion limit	Lower explosion limit 1 Vol-%		CAS No78-93-3 butanone
Flash point	< 0 °C		
Auto-ignition temperature	235 °C		CAS No115-10-6 dimethyl ether
Decomposition temperature			No decomposition if used as directed.
pH	not determined		

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	Value	Method	Source, Remark
Viscosity	not determined		
Solubility(ies)	Water solubility		not or little miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	3400 hPa (20°C)		CAS No115-10-6 dimethyl ether
Density and/or relative density	1.075 g/cm ³		
Relative vapour density	not determined		
particle characteristics	not determined		

* **9.2 Other information**

* **Other safety characteristics**

	Value	Method	Source, Remark
Solvent content	60.9 %		
Solid content	37.7 %		
Explosive properties			The product itself is not explosive, however, formation of explosive / flammable vapor-air mixtures is possible.

* **Other information**
see technical data sheet

* **SECTION 10: Stability and reactivity**

10.1 Reactivity

No data available

* **10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid heat and frost.
Heat, open flames, sparks

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Concerning possible decomposition products see section 5.

Additional information

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reducers and oxidizers.

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*** SECTION 11: Toxicological information**

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

*** Acute toxicity**

*** Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No13463-41-7 pyrithione zinc LD50: 221 mg/kg bw 122573 mg/kg		ATEmix
Acute dermal toxicity	7321 mg/kg		ATEmix
Acute inhalation toxicity	CAS No13463-41-7 pyrithione zinc Acute inhalation toxicity (dust/mist) LC50: 0.14 mg/L Acute inhalation toxicity (aerosol) 37.7 mg/L Exposure time 4 h		ATEmix

Skin corrosion/irritation

Assessment/classification

Irritating to skin.

Serious eye damage/irritation

Assessment/classification

Causes serious eye irritation.

*** Sensitisation to the respiratory tract**

*** Assessment/classification**

No sensitizing effects known.

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

*** Germ cell mutagenicity**

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity				

*** Assessment/classification**

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

*** Carcinogenicity**

*** Assessment/classification**

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

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* **Reproductive toxicity**

Animal data

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity				

* **Assessment/classification**

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

* **STOT-single exposure**

* **STOT SE 1 and 2**

* **Other information**

No effects known.

* **STOT SE 3**

* **Irritation to respiratory tract**

Other information

No effect known.

* **Narcotic effects**

* **Assessment/classification**

May cause drowsiness or dizziness.

* **STOT-repeated exposure**

Assessment/classification

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

Aspiration hazard

Remark

No labelling necessary with regard to aspiration toxicity (mixture in pressurised container/aerosol dispenser).

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

Other information

The product should be handled with the care usual when dealing with chemicals.
Further hazardous properties can not be excluded.

* **SECTION 12: Ecological information**

12.1 Toxicity

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Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No1189173-42-9 Hydrocarbons, C10, aromatics, <1% naphthalene LC50: 2- 5 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h CAS No107-98-2 1-methoxy-2-propanol LC50: 6812 mg/L Species Leuciscus idus (golden orfe) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	CAS No1189173-42-9 Hydrocarbons, C10, aromatics, <1% naphthalene EC50 > 12.6 mg/L Species Daphnia magna (Big water flea) Test duration 48 h CAS No1189173-42-9 Hydrocarbons, C10, aromatics, <1% naphthalene EC50 3- 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No1189173-42-9 Hydrocarbons, C10, aromatics, <1% naphthalene EL50 1- 3 mg/L Species Pseudokirchneriella subcapitata Test duration 72 h CAS No107-98-2 1-methoxy-2-propanol EC50 > 1000 mg/L Species Pseudokirchneriella subcapitata Test duration 7 d	OECD 201	

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	Effective dose	Method,Evaluation	Source, Remark
	CAS No1189173-42-9 Hydrocarbons, C10, aromatics, <1% naphthalene EC50 11 mg/L Species Pseudokirchneriella subcapitata Test duration 72 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

* **12.6 Endocrine disrupting properties**

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Harmful to aquatic organisms, with long-term effect.
 Ecological data for the mixture are not available.
 Product must not enter waters, waste water or soil.

* **SECTION 13: Disposal considerations**

* **13.1 Waste treatment methods**

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product

Dispose of waste according to applicable legislation.
 Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".
 This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the German federal states.

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Appropriate disposal / Package

Disposal in accordance with local regulations.

*

Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2.1	2	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS Marine pollutant	ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2
Packing group	-
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	1 L
Marine pollutant	Yes.
EmS	F-D, S-U

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Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es) 2.1
Packing group -
Environmental hazards ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, ready-to-use condition 61.22 %

15.2 Chemical Safety Assessment

No data available

*** SECTION 16: Other information**

*** Indication of changes**

* Data changed compared with the previous version

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* **Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ECHA: European Chemicals Agency

REACH: Registration, Evaluation and Authorization of Chemicals

PBT: persistent and bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

SCL: Specific concentration limit

SVHC: Substance of Very High Concern

vPvB: very persistent, very bioaccumulative

DNEL: derived no-effect level

ATE: Acute Toxicity Estimate

WGK: water hazard class

See overview table at www.euphrac.eu

Aerosol 1: Aerosols, Category 1

Flam. Liq. 2: Flammable Liquids, Category 2

Flam. Liq. 3: Flammable Liquids, Category 3

Acute Tox. 3, H301: Acute Toxicity (oral), Category 3

Acute Tox. 4, H312: Acute toxicity (dermal), Category 4

Skin Irrit. 2: Skin irritation, Category 2

Eye Dam. 1: Serious eye damage, Category 1

Eye Irrit. 2: Eye irritation, Category 2

Skin Sens. 1: Skin sensitizer, Category 1

Repr. 1B: Reproductive toxicant, Category 1B

Repr. 2: Reproductive toxicant, Category 2

STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3

STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)

STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure), Category 2

Asp. Tox. 1: Aspiration toxicity, Category 1

Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

Acute Tox. 2, H330: Acute Toxicity (inhalation), Category 2

Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4

Key literature references and sources for data

Data sheets of the sub-supplier.

European Chemicals Agency (ECHA)

Full text of Hazard Statements in Section 3 (NOT classification of the mixture).

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

The classification of the mixture was carried out following the calculation method according to the CLP Regulation (1272/2008).

Training advice

See technical data sheet for more information.

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Additional information

National and local regulations concerning chemicals shall be observed.
The national special regulations must be implemented by each user on his own responsibility!
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.
Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.

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Indication of changes

* Data changed compared with the previous version