

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

2K UHS LOW VOC Clearcoat

Product no.

7-120-1000/5000

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Bodywork protector treatment. Only for professional use.

Uses advised against

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The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

August Handel GmbH
Heinrich-Hertz-Str. 3b
DE-14532 Kleinmachnow b. Berlin
Germany
Phone: +49 30 217333 00

Contact person**E-mail**

info@augusthandel.com

SDS date

2017-05-23

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226
Skin Sens. 1; H317
STOT SE 3; H336
Repr. 1B; H360
Aquatic Chronic 3; H412
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)**Signal word**

Danger

Hazard statement(s)

Flammable liquid and vapour. (H226)
 May cause an allergic skin reaction. (H317)
 May cause drowsiness or dizziness. (H336)
 May damage fertility or the unborn child. (H360)
 Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General If medical advice is needed, have product container or label at hand. (P101).
 Keep out of reach of children. (P102).
Prevention Obtain special instructions before use. (P201).
Response IF exposed or concerned: Get medical advice/attention. (P308+P313).
 Call a POISON CENTER/doctor if you feel unwell. (P312).
Storage Store locked up. (P405).
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

n-butyl acetate, isobutyl methacrylate, Hydroxyphenyl-benzotriazole-derivative II, Hydroxyphenyl-benzotriazole-derivative 1, Bis,1,2,2,6,6-pentamethyl-4-piperidyl,sebacate, dibutyltin,dilaurate, dibutyltin,dilaurate, Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, 2-hydroxyethyl methacrylate, Bis,1,2,2,6,6-pentamethyl-4-piperidyl,sebacate

2.3. Other hazards

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling

Do not use in paint spraying equipment.

Additional warnings

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VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME: n-butyl acetate
 IDENTIFICATION NOS.: CAS-no: 123-86-4 EC-no: 204-658-1 Index-no: 607-025-00-1
 CONTENT: 10-30%%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3
 H226, H336, EUH066
 NOTE: S

NAME: 2-methoxy-1-methylethyl acetate
 IDENTIFICATION NOS.: CAS-no: 108-65-6 EC-no: 203-603-9 Index-no: 607-195-00-7
 CONTENT: 10-20%%
 CLP CLASSIFICATION: Flam. Liq. 3
 H226
 NOTE: SL

NAME: 2-butoxyethyl acetate butylglycol acetate
 IDENTIFICATION NOS.: CAS-no: 112-07-2 EC-no: 203-933-3 Index-no: 607-038-00-2
 CONTENT: 1-5%%
 CLP CLASSIFICATION: Acute Tox. 4
 H312, H332
 NOTE: SL

NAME: acetone
 IDENTIFICATION NOS.: CAS-no: 67-64-1 EC-no: 200-662-2 Index-no: 606-001-00-8
 CONTENT: 1-2,5%%
 CLP CLASSIFICATION: Flam. Liq. 2, STOT SE 3, Eye Irrit. 2
 H225, H319, H336
 NOTE: SL

NAME: Bis,1,2,2,6,6-pentamethyl-4-piperidyl,sebacate
 IDENTIFICATION NOS.: CAS-no: 41556-26-7 EC-no: 255-437-1
 CONTENT: <1%%
 CLP CLASSIFICATION: Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1
 H317, H400, H410

NAME: Hydroxyphenyl-benzotriazole-derivative 1
 IDENTIFICATION NOS.: CAS-no: 104810-48-2 EC-no: 600-603-4

CONTENT:	<1%%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Chronic 2 H317, H411
NAME:	2-methylpropan-2-ol
IDENTIFICATION NOS.:	CAS-no: 75-65-0 EC-no: 200-889-7 Index-no: 603-005-00-1
CONTENT:	0,1-1%%
CLP CLASSIFICATION:	Flam. Liq. 2, Acute Tox. 4, STOT SE 3, Eye Irrit. 2 H225, H319, H332, H335
NOTE:	S
NAME:	Hydroxyphenyl-benzotriazole-derivative II
IDENTIFICATION NOS.:	CAS-no: 104810-47-1
CONTENT:	<1%%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Chronic 2 H317, H411
NAME:	Ny substans
IDENTIFICATION NOS.:	-
CONTENT:	0,1-1%%
CLP CLASSIFICATION:	Aquatic Chronic 2 , Acute Tox. 4 H411, H302
NAME:	isobutyl methacrylate
IDENTIFICATION NOS.:	CAS-no: 97-86-9 EC-no: 202-613-0 Index-no: 607-113-00-X
CONTENT:	0,1-1%%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1 H226, H315, H317, H319, H335, H400 (M-acute = 1)
NOTE:	S
NAME:	dibutyltin,dilaurate
IDENTIFICATION NOS.:	CAS-no: 77-58-7 EC-no: 201-039-8
CONTENT:	0,1-0,5%%
CLP CLASSIFICATION:	Acute Tox. 4, STOT SE 1, STOT RE 1, Skin Corr. 1C, Skin Sens. 1, Muta. 2, Repr. 1B, Aquatic Acute 1 H302, H314, H317, H341, H360, H370, H372, H400 (M-acute = 1)
NAME:	Bis,1,2,2,6,6-pentamethyl-4-piperidyl,sebacate
IDENTIFICATION NOS.:	CAS-no: 41556-26-7 EC-no: 255-437-1
CONTENT:	<1%%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H317, H400, H410
NAME:	2-hydroxyethyl methacrylate
IDENTIFICATION NOS.:	CAS-no: 868-77-9 EC-no: 212-782-2 Index-no: 607-124-00-X
CONTENT:	0,01-0,1%%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H315, H317, H319
NAME:	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
IDENTIFICATION NOS.:	CAS-no: 82919-37-7 EC-no: 280-060-4
CONTENT:	0,01-0,1%%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H317, H400, H410 (M-acute = 1) (M-chronic = 1)
NAME:	3-mercaptopropionic acid
IDENTIFICATION NOS.:	CAS-no: 107-96-0 EC-no: 203-537-0
CONTENT:	<0,01%%
CLP CLASSIFICATION:	Met. Corr. 1, Acute Tox. 4, Acute Tox. 3, Skin Corr. 1A H290, H301, H314, H332

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,32 - 0,48
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,08 - 0,12
N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)ⁱ*25)*0.1*10[^]CATi) = 4,8 - 7,2
N acute (CAT 1) Sum = Sum(Ci/M(acute)ⁱ*25) = 0,0864 - 0,1296

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment.

Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. The room and chemical closet shall be provided with warning sign for toxic substances. Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

2-methylpropan-2-ol

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 308 mg/m³

Short-term exposure limit (15-minute reference period): 150 ppm | 462 mg/m³

acetone

Long-term exposure limit (8-hour TWA reference period): 500 ppm | 1210 mg/m³

Short-term exposure limit (15-minute reference period): 1500 ppm | 3620 mg/m³

2-butoxyethyl acetate butylglycol acetate

Long-term exposure limit (8-hour TWA reference period): 20 ppm | - mg/m³

Short-term exposure limit (15-minute reference period): 50 ppm | - mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

2-methoxy-1-methylethyl acetate

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 274 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 548 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

n-butyl acetate

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m³

Short-term exposure limit (15-minute reference period): 200 ppm | 966 mg/m³

DNEL / PNEC

DNEL (dibutyltin,dilaurate): 2,08 mg/kg

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (dibutyltin,dilaurate): 0,42 mg/kg

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (dibutyltin,dilaurate): 0,02 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (acetone): 3620 mg/m³

Duration of Exposure: Short term

DNEL (acetone): 1210 mg/m³

Duration of Exposure: Long term

DNEL (n-butyl acetate): 480 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-butyl acetate): 7 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (n-butyl acetate): 960 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (n-butyl acetate): 960 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Local effects - Workers
 DNEL (n-butyl acetate): 480 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Local effects - Workers
 DNEL (2-methoxy-1-methylethyl acetate): 153,5 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (2-methoxy-1-methylethyl acetate): 275 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (2-butoxyethyl acetate butylglycol acetate): 102 mg/kg
 Exposure: Dermal
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (2-butoxyethyl acetate butylglycol acetate): 102 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (2-butoxyethyl acetate butylglycol acetate): 775 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (2-butoxyethyl acetate butylglycol acetate): 333 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Local effects - Workers
 DNEL (2-butoxyethyl acetate butylglycol acetate): 133 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Local effects - Workers

PNEC (dibutyltin,dilaurate): 0,000463 mg/l
 Exposure: Freshwater
 PNEC (dibutyltin,dilaurate): 0,0000463 mg/l
 Exposure: Marine water
 PNEC (dibutyltin,dilaurate): 0,00463 mg/l
 Exposure: Intermittent release
 PNEC (dibutyltin,dilaurate): 0,05 mg/kg
 Exposure: Freshwater sediment
 PNEC (dibutyltin,dilaurate): 0,005 mg/kg
 Exposure: Marine water sediment
 PNEC (dibutyltin,dilaurate): 0,0407 mg/kg
 Exposure: Soil
 PNEC (n-butyl acetate): 0,18 mg/l
 Exposure: Freshwater
 PNEC (n-butyl acetate): 0,018 mg/l
 Exposure: Marine water
 PNEC (n-butyl acetate): 0,36 mg/l
 Exposure: Intermittent release
 PNEC (n-butyl acetate): 0,981 mg/kg
 Exposure: Freshwater sediment
 PNEC (n-butyl acetate): 0,0981 mg/kg
 Exposure: Marine water sediment
 PNEC (n-butyl acetate): 0,0903 mg/kg
 Exposure: Soil
 PNEC (n-butyl acetate): 35,6 mg/l
 Exposure: Sewage Treatment Plant
 PNEC (2-methoxy-1-methylethyl acetate): 0,635 mg/l
 Exposure: Freshwater
 PNEC (2-methoxy-1-methylethyl acetate): 0,0635 mg/l
 Exposure: Marine water
 PNEC (2-methoxy-1-methylethyl acetate): 6,35 mg/l
 Exposure: Intermittent release
 PNEC (2-methoxy-1-methylethyl acetate): 3,29 mg/kg
 Exposure: Freshwater sediment
 PNEC (2-methoxy-1-methylethyl acetate): 0,329 mg/kg
 Exposure: Marine water sediment

PNEC (2-methoxy-1-methylethyl acetate): 0,29 mg/kg
 Exposure: Soil
 PNEC (2-methoxy-1-methylethyl acetate): 100 mg/l
 Exposure: Sewage Treatment Plant
 PNEC (2-butoxyethyl acetate butylglycol acetate): 0,304 mg/l
 Exposure: Freshwater
 PNEC (2-butoxyethyl acetate butylglycol acetate): 0,0304 mg/l
 Exposure: Marine water
 PNEC (2-butoxyethyl acetate butylglycol acetate): 0,56 mg/l
 Exposure: Intermittent release
 PNEC (2-butoxyethyl acetate butylglycol acetate): 2,03 mg/kg
 Exposure: Freshwater sediment
 PNEC (2-butoxyethyl acetate butylglycol acetate): 0,203 mg/kg
 Exposure: Marine water sediment
 PNEC (2-butoxyethyl acetate butylglycol acetate): 0,68 mg/kg
 Exposure: Soil
 PNEC (2-butoxyethyl acetate butylglycol acetate): 90 mg/l
 Exposure: Sewage Treatment Plant

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and - showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: Combination filter A2B2E2K2-Hg-P3. Brown/Gray/Yellow/Green/Red/White

Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

Hand protection

Recommended: Natural rubber (latex)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Clear
Odour	No data available.
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.

Density (g/cm ³)	0,99-1,05
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	24
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
Solubility	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
dibutyltin,dilaurate	Rat	LD50	Oral	500-2000 mg/kg
dibutyltin,dilaurate	Rabbit	LD50	Dermal	>1000 mg/kg
acetone	Rat	LD50	Oral	5800 mg/kg
acetone	Rabbit	LD50	Dermal	20000 mg/kg
acetone	Rat	LC50	Inhalation	39 mg/m ³
2-butoxyethyl acetate butylg...	Rat	LD50	Oral	1850 mg/kg
2-butoxyethyl acetate butylg...	Rabbit	LD50	Dermal	1500 mg/kg
2-butoxyethyl acetate butylg...	-	LC50	Inhalation	1,5 mg/l
2-methoxy-1-methylethyl	Rat	LD50	Oral	8532 mg/kg
aceta...	Rat	LC50	Inhalation	35,7 mg/m ³
2-methoxy-1-methylethyl	Rabbit	LD50	Dermal	>5000 mg/kg
aceta...	Rat	LD50	Oral	10768 mg/kg
2-methoxy-1-methylethyl	Rabbit	LD50	Dermal	17600 mg/kg
aceta...	Rat	LC50	Inhalation	23,4 mg/l 4h
n-butyl acetate	Rat	LD50	Dermal	10760 mg/kg
n-butyl acetate	Mouse	LD50	Oral	6mg/kg
n-butyl acetate				
n-butyl acetate				
n-butyl acetate				

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
dibutyltin,dilaurate				
dibutyltin,dilaurate				
dibutyltin,dilaurate				
dibutyltin,dilaurate	Daphnia	EC50		2,28 mg/l
acetone	Crustacean	EC50	3h	>1000 mg/l
acetone	Algae	EC50	72h	>1 mg/l
acetone	Fish	LC50	48h	2,04 mg/l
2-butoxyethyl acetate butylg...	Daphnia	EC50	48h	8800 mg/l
2-butoxyethyl acetate butylg...	Daphnia	LC50	48h	2262 mg/l
2-butoxyethyl acetate butylg...	Fish	LC50	96h	5540 mg/l
2-methoxy-1-methylethyl aceta...	Daphnia	EC50	24 h	>100 mg/l
2-methoxy-1-methylethyl aceta...	Algae	EC50	72 h	>100 mg/l
2-methoxy-1-methylethyl aceta...	Fish	LC50	48 h	10-100 mg/l
2-methoxy-1-methylethyl aceta...	Algae	EC10	30 min	>1000 mg/l
2-methoxy-1-methylethyl aceta...	Algae	EC50		>100 mg/l
2-methoxy-1-methylethyl aceta...	Fish	EC50		>100 mg/l
2-methoxy-1-methylethyl aceta...	Daphnia	EC50		>100 mg/l
2-methoxy-1-methylethyl aceta...	Daphnia	EC50	48 h	>500 mg/l
2-methoxy-1-methylethyl aceta...	Fish	EC50	72 h	>1000 mg/l
2-methoxy-1-methylethyl aceta...	Fish	LC50	96 h	>100 mg/l
2-methoxy-1-methylethyl aceta...	Daphnia	EC50	48 h	44 mg/l
2-methoxy-1-methylethyl aceta...	Algae	EC50	72 h	675 mg/l
2-methoxy-1-methylethyl aceta...	Fish	LC50	96 h	18 mg/l
n-butyl acetate	Algae	NOEC	16 h	115 mg/l
n-butyl acetate	Crustacean	EC50	48 h	32 mg/L
n-butyl acetate				
n-butyl acetate				
n-butyl acetate				

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
dibutyltin,dilaurate	No	Modified OECD Screening Test	23%
2-butoxyethyl acetate butylg...	Yes	Modified OECD Screening Test	>70 %
2-methoxy-1-methylethyl aceta...	Yes	Modified OECD Screening Test	100%
n-butyl acetate	Yes	Closed Bottle Test	83%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
dibutyltin,dilaurate	No	No data available	No data available
2-methoxy-1-methylethyl aceta...	Yes	0,56	No data available
n-butyl acetate	Yes	2,3	15,3

12.4. Mobility in soil

2-methoxy-1-methylethyl aceta...: Log Koc= 1,7 (High mobility potential.).

n-butyl acetate : Log Koc= 1,27 (High mobility potential.).

12.5. Results of PBT and vPvB assessment

Contains epoxy compounds. See information supplied by the manufacturer.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment, This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

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

Product is covered by the regulations on hazardous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information**14.1 – 14.4**

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number 1263

14.2. UN proper shipping name -

14.3. Transport hazard class(es) 3

14.4. Packing group III

Notes -

Tunnel restriction code D/E

IMDG

UN-no. 1263

Proper Shipping Name PAINT

Class 3

PG* III

EmS F-E,S-E

MP** -

Hazardous constituent -

IATA/ICAO

UN-no. 1263

Proper Shipping Name PAINT

Class 3

PG* III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Industrial use only.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

-

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H290 - May be corrosive to metals.

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

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.

H341 - Suspected of causing genetic defects.

H360 - May damage fertility or the unborn child.

H370 - Causes damage to organs^a.

H372 - Causes damage to organs through prolonged or repeated exposure^a.

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.

EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

-

Additional label elements

-

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

**Date of last essential change
(First cipher in SDS version)**

-

**Date of last minor change
(Last cipher in SDS version)**

-