

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

2K HS Scratch Resistant Clearcoat 2:1

Product no.

7-221-1000/5000

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

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E-mail

info@augusthandel.com

SDS date

2017-06-23

SDS Version

3.0

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
Aquatic Chronic 3; H412
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Flammable liquid and vapour. (H226)

May cause an allergic skin reaction. (H317)
 May cause drowsiness or dizziness. (H336)
 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 Wear protective gloves/eye protection. (P280).
Response In case of fire: Use alcohol-resistant foam/carbonic acid/powder/water mist/carbon dioxide/dry sand to extinguish. (P370+P378).
 Call a POISON CENTER/doctor if you feel unwell. (P312).
Storage Store in a well-ventilated place. Keep cool. (P403+P235).
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 , 1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate

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:	25-50%%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H336, EUH066
NOTE:	S
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:	2,5-<10%%
CLP CLASSIFICATION:	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4 H302, H312, H332
NOTE:	SL
NAME:	hydrocarbons, C9, aromatics
IDENTIFICATION NOS.:	CAS-no: 128601-23-0 EC-no: 918-668-5
CONTENT:	2,5-<10%%
CLP CLASSIFICATION:	Flam. Liq. 3 H226
NOTE:	S
NAME:	xylene
IDENTIFICATION NOS.:	CAS-no: 1330-20-7 EC-no: 215-535-7 Index-no: 601-022-00-9
CONTENT:	0,1-<5%%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1 H226, H304, H312, H315, H332, H335, H373
NOTE:	SL
NAME:	ethylbenzene
IDENTIFICATION NOS.:	CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4
CONTENT:	0,1-<2,5%%
CLP CLASSIFICATION:	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1 H225, H304, H332, H373
NOTE:	SL
NAME:	1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate
IDENTIFICATION NOS.:	CAS-no: 1065336-91-5 EC-no: 915-687-0
CONTENT:	0,25-<1%%
CLP CLASSIFICATION:	Aquatic Acute 1, Skin Sens. 1A, Aquatic Chronic 1 H400, H317, H410

NAME:	2,3-epoxypropyl neodecanoate
IDENTIFICATION NOS.:	CAS-no: 26761-45-5 EC-no: 247-979-2 REACH-no: 01-2119431597-33
CONTENT:	0,25-<1%%
CLP CLASSIFICATION:	Muta. 2, Aquatic Chronic 2, Skin Sens. 1 H341, H411, H317

(*) 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
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,32 - 0,48
N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)ⁱ*25)*0.1*10[^]CATi) = 1,6 - 2,4

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

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

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

Nothing special

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: 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. 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.

7.2. Conditions for safe storage, including any incompatibilities

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

ethylbenzene

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m³

Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m³

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

xylene

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m³

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

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.)

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 (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 (xylene): 180 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (xylene): 289 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (xylene): 289 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Local effects - Workers
 DNEL (xylene): 77 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (xylene): 77 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Local effects - Workers
 DNEL (ethylbenzene): 180 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (ethylbenzene): 293 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Local effects - Workers
 DNEL (ethylbenzene): 77 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
 DNEL (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 2,5 mg/kg
 Exposure: Dermal
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 2,5 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 2,35 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Short term – Systemic effects - Workers
 DNEL (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 2,35 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (hydrocarbons, C9, aromatics): 25 mg/kg
 Exposure: Dermal
 Duration of Exposure: Long term – Systemic effects - Workers
 DNEL (hydrocarbons, C9, aromatics): 150 mg/m³
 Exposure: Inhalation
 Duration of Exposure: Long term – Systemic effects - Workers
 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 (xylene): 0,327 mg/l
 Exposure: Freshwater
 PNEC (xylene): 12,46 mg/kg
 Exposure: Freshwater sediment
 PNEC (xylene): 2,31 mg/kg
 Exposure: Soil
 PNEC (xylene): 6,58 mg/l
 Exposure: Sewage Treatment Plant
 PNEC (ethylbenzene): 0,1 mg/l
 Exposure: Freshwater
 PNEC (ethylbenzene): 0,01 mg/l
 Exposure: Marine water
 PNEC (ethylbenzene): 0,1 mg/l
 Exposure: Intermittent release
 PNEC (ethylbenzene): 13,7 mg/kg
 Exposure: Freshwater sediment
 PNEC (ethylbenzene): 1,37 mg/kg
 Exposure: Marine water sediment
 PNEC (ethylbenzene): 2,68 mg/kg
 Exposure: Soil
 PNEC (ethylbenzene): 9,6 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
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 0,0022 mg/l
 Exposure: Freshwater
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 0,00022 mg/l
 Exposure: Marine water
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 0,009 mg/l
 Exposure: Intermittent release
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 1,05 mg/kg
 Exposure: Freshwater sediment
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 0,11 mg/kg
 Exposure: Marine water sediment
 PNEC (1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate): 0,21 mg/kg
 Exposure: Soil

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

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

No specific requirements.

Individual protection measures, such as personal protective equipment**Generally**

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: Combination filter A2P3. Class 2/3. Brown/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	Colourless
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,994

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	124
Vapour pressure (25°C)	10,7 hPa
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)	280
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	1,2 - 7,5 v/v%
Explosive properties	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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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
1-methyl 1,2,2,6,6-pentamethyl...	Rat	LD50	Oral	3230 mg/kg
1-methyl 1,2,2,6,6-pentamethyl...	Rat	LD50	Dermal	>3170 mg/kg
1-methyl 1,2,2,6,6-pentamethyl...	Rat	LD50	Oral	3500 - 4710 mg/kg
ethylbenzene	Rabbit	LD50	Dermal	17800 mg/kg
ethylbenzene	-	LC50	Inhalation	11 mg/l
ethylbenzene	Rat	LD50	Oral	4300 mg/kg
ethylbenzene	Rabbit	LD50	Dermal	2000 mg/kg
xylene	Rat	LC50	Inhalation	22,1 mg/m ³
xylene	Rat	LD50	Oral	3592 mg/kg
xylene	Rat	LC50	Inhalation	>6193 mg/l
hydrocarbons, C9, aromatics	Rat	LD50	Oral	1850 mg/kg
hydrocarbons, C9, aromatics	Rabbit	LD50	Dermal	1500 mg/kg
2-butoxyethyl acetate butylg...	-	LC50	Inhalation	1,5 mg/l
2-butoxyethyl acetate butylg...	Rat	LD50	Oral	10768 mg/kg
2-butoxyethyl acetate butylg...	Rabbit	LD50	Dermal	17600 mg/kg
n-butyl acetate	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

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

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

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
1-methyl 1,2,2,6,6-pentamethyl...	Daphnia	EC50	24 h	20 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Algae	EC50	3 h	>100 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Algae	EC50	72 h	1,68 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Fish	LC50	96 h	0,97 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Algae	EC10	30 min	200 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Algae	EC50	24 h	13,4 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Fish	EC50	24 h	7 mg/l
1-methyl 1,2,2,6,6-pentamethyl...	Daphnia	EC50	48 h	2,4 mg/l
ethylbenzene	Algae	EC50	72 h	33 mg/L
ethylbenzene	Fish	LC50	96 h	12 mg/L
ethylbenzene	Daphnia	EC50	24 h	96 mg/l
ethylbenzene	Daphnia	EC50	48 h	>1 - 10 mg/l
ethylbenzene	Algae	IC50	72 h	2,2 mg/l

ethylbenzene	Fish	LC50	96 h	13,5 mg/l
xylene	Algae	EC50	10 min	>99 mg/l
xylene	Daphnia	EC50	48 h	6,14 mg/l
xylene	Daphnia	LC50	48 h	3,2 mg/l
xylene	Fish	ErC50	96 h	9,2 mg/l
hydrocarbons, C9, aromatics	Algae	ErC50	72 h	2,9 mg/l
hydrocarbons, C9, aromatics	Daphnia	EC50	24 h	>100 mg/l
hydrocarbons, C9, aromatics	Algae	EC50	72 h	>100 mg/l
hydrocarbons, C9, aromatics	Fish	LC50	48 h	10-100 mg/l
hydrocarbons, C9, aromatics	Daphnia	EC50	48 h	44 mg/l
2-butoxyethyl acetate butylg...	Algae	EC50	72 h	675 mg/l
2-butoxyethyl acetate butylg...	Fish	LC50	96 h	18 mg/l
2-butoxyethyl acetate butylg...	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				
n-butyl acetate				

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
ethylbenzene	Yes	Modified OECD Screening Test	100
hydrocarbons, C9, aromatics	Yes	Manometric Respirometry Test	78%
2-butoxyethyl acetate butylg...	Yes	Modified OECD Screening Test	>70 %
n-butyl acetate	Yes	Closed Bottle Test	83%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
n-butyl acetate	Yes	2,3	15,3

12.4. Mobility in soil

ethylbenzene : Log Koc= 2,41 (Moderate 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

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Specific labelling

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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**	No
Hazardous constituent	Flammable Liquids

IATA/ICAO

UN-no.	1263
Proper Shipping Name	PAINT
Class	3
PG*	III

14.5. Environmental hazards

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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.

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

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Additional information

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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.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H341 - Suspected of causing genetic defects.
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.
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

JW

Date of last essential change

(First cipher in SDS version)

2017-06-08

Date of last minor change

(Last cipher in SDS version)

2017-06-08