

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

485 - Clear Coat

Product no.

00.485

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

Topcoat finishing

Uses advised against

-

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

HBC System Smarttool Production ApS

Hobrovej 961-963

9530 Støvring

Denmark

tel:+45 70 22 70 70

Contact person

Vibeke Jørgensen

E-mail

info@hbc-system.com

SDS date

2016-04-13

SDS Version

2.0

1.4. Emergency telephone number

Use your national or local emergency number

See section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226

STOT RE 2; H373

Eye Irrit. 2; H319

Skin Irrit. 2; H315

STOT SE 3; H335

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 damage to organs through prolonged or repeated exposure. (H373)
- Causes serious eye irritation. (H319)
- Causes skin irritation. (H315)
- May cause respiratory irritation. (H335)
- Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)	General	-
	Prevention	Do not breathe mist/vapours/fume/spray. (P260). Wear protective gloves/protective clothing/eye protection. (P280).
	Response	Get medical advice/attention if you feel unwell. (P314). If eye irritation persists: Get medical advice/attention. (P337+P313).
	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

Xylene, mixture of isomeres

2.3. Other hazards

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

Additional labelling

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacat, 1-hydroxypropan-2-yl,2-methylprop-2-enoate. May produce an allergic reaction.

Additional warnings

-

VOC

VOC-MAX: 405 g/l, MAXIMUM VOC CONTENT (B/d): 420 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Xylene, mixture of isomeres
IDENTIFICATION NOS.:	CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32 Index-no: 601-022-00-9
CONTENT:	10-15%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2 H226, H312, H315, H319, H332, H335, H373
NOTE:	S
NAME:	4-methylpentan-2-one isobutyl methyl ketone
IDENTIFICATION NOS.:	CAS-no: 108-10-1 EC-no: 203-550-1 Index-no: 606-004-00-4
CONTENT:	5-10%
CLP CLASSIFICATION:	Flam. Liq. 2, Acute Tox. 4, STOT SE 3, Eye Irrit. 2 H225, H302, H319, H332, H335, EUH066
NOTE:	S
NAME:	5-methylhexan-2-one isoamyl methyl ketone
IDENTIFICATION NOS.:	CAS-no: 110-12-3 EC-no: 203-737-8 Index-no: 606-026-00-4
CONTENT:	5-10%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4 H226, H332
NOTE:	S
NAME:	2-,2H-1,2,3-benzotriazol-2-yl,-4,6-bis,2-methylbuta,n-2-,yl,phenol
IDENTIFICATION NOS.:	CAS-no: 25973-55-1 EC-no: 247-384-8
CONTENT:	5-10%

According to EC-Regulation 1907/2006 (REACH)

CLP CLASSIFICATION:	STOT RE 2, Aquatic Chronic 4 H373, H413
NAME:	acetone propan-2-one propanone
IDENTIFICATION NOS.:	CAS-no: 67-64-1 EC-no: 200-662-2 REACH-no: 01-2119471330-49 Index-no: 606-001-00-8
CONTENT:	3-5%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336, EUH066
NOTE:	S
NAME:	Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex combi
IDENTIFICATION NOS.:	CAS-no: 64742-95-6 EC-no: 265-199-0 Index-no: 649-356-00-4
CONTENT:	3-5%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H226, H304, H315, H335, H336, H411
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:	1-3%
CLP CLASSIFICATION:	Acute Tox. 4 H312, H332
NOTE:	S
NAME:	Ethylbenzene
IDENTIFICATION NOS.:	CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3 H225, H304, H332, H373, H412
NOTE:	S
NAME:	heptan-2-one methyl amyl ketone
IDENTIFICATION NOS.:	CAS-no: 110-43-0 EC-no: 203-767-1 Index-no: 606-024-00-3
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT SE 3 H226, H302, H332, H336
NOTE:	S
NAME:	1,2,4-trimethylbenzene
IDENTIFICATION NOS.:	CAS-no: 95-63-6 EC-no: 202-436-9 Index-no: 601-043-00-3
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2 H226, H315, H319, H332, H335, H411
NOTE:	S
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:	1-hydroxypropan-2-yl,2-methylprop-2-enoate
IDENTIFICATION NOS.:	CAS-no: 27813-02-1 EC-no: 248-666-3
CONTENT:	<1%
CLP CLASSIFICATION:	Eye Irrit. 2, Skin Sens. 1 H317, H319
NAME:	methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacat
IDENTIFICATION NOS.:	CAS-no: 82919-37-7 EC-no: 280-060-4
CONTENT:	<1%
CLP CLASSIFICATION:	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H317, H400, H410 (M-acute = 1) (M-chronic = 1)

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

S = Organic solvent

Other informations

ATEmix(inhale, vapour) > 20
 ATEmix(inhale, dust/mist) > 20000
 ATEmix(dermal) > 2000
 ATEmix(oral) > 2000
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,92 - 0
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,12 - 1,68
 N chronic (CAT 3) Sum = Sum(Ci/M(chronic))*25*0.1*10^CATi) = 3,264 - 4,896
 N acute (CAT 1) Sum = Sum(Ci/M(acute))*25) = 0,0224 - 0,0336

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. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

Inhalation

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes with water (20-30°C) for at least 15 minutes. Call a doctor.

Ingestion

In the case of ingestion, contact a doctor immediately and take this safety data sheet or the label from the material with you. 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 so that no vomit runs back into the mouth and throat. Prevent shock by keeping the injured person warm and calm. Give mouth-to-mouth resuscitation if breathing stops. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the 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. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

This product contains substances that may cause an allergic reaction in people who are already so disposed.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

Call a POISON CENTER/doctor if you feel unwell.

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. Water jets 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, as in the case of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from waste material. Avoid direct contact with spilled substances. Stores that have not ignited must be cooled by water mist. Where possible, remove flammable materials. Make sure there is sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

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. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Consider putting up waste collecting trays/basins to prevent leakage to the surroundings. 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

Always store in containers of the same material as the original. Must be stored in a cool and ventilated area, away from possible sources of combustion.

Please be aware that this is a chemical that forms peroxides. The content of peroxide must be controlled regularly after opening for example every 6th month.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

1,2,4-trimethylbenzene (EH40, 2011)

Long-term exposure limit (8-hour TWA reference period): 20 ppm | 100 mg/m³

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

heptan-2-one methyl amyl ketone (EH40/2005, 2011)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 237 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 475 mg/m³

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

Ethylbenzene (EH40/2005, 2011)

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.)

2-butoxyethyl acetate butylglycol acetate (EH40/2005, 2011)

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.)

Solvent naphtha (petroleum), light arom. Low boiling point... (AT, 2008)

Long-term exposure limit (8-hour TWA reference period): - ppm | 5 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 10 mg/m³

acetone propan-2-one propanone (EH40/2005, 2008)

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

4-methylpentan-2-one isobutyl methyl ketone (EH40/2005, 2008)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 208 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 416 mg/m³

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

Xylene, mixture of isomeres (EH40/2005, 2008)

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.)

DNEL / PNEC

DNEL (Xylene, mixture of isomeres): 77 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

Remarks: workers

DNEL (Xylene, mixture of isomeres): 289 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

Remarks: workers - irritation (respiratory tract) - data from the registration

DNEL (Xylene, mixture of isomeres): 180 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

Remarks: workers - data from the registration

DNEL (Xylene, mixture of isomeres): 1,6 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 108 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 14,8 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 289 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (Xylene, mixture of isomeres): 174 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 174 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (acetone propan-2-one propanone): 186 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 62 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (acetone propan-2-one propanone): 2420 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 1210 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 200 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (acetone propan-2-one propanone): 62 mg/kg

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

PNEC (Xylene, mixture of isomeres): 0.327 mg/l

Exposure: Freshwater

PNEC (Xylene, mixture of isomeres): 6,58 mg/L

Exposure: Sewage Treatment Plant

According to EC-Regulation 1907/2006 (REACH)

PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Marine water

PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Intermittent release

PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Freshwater sediment

PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Marine water sediment

PNEC (Xylene, mixture of isomeres): 2,31 mg/kg
Exposure: Soil

PNEC (acetone propan-2-one propanone): 21 mg/L
Exposure: Intermittent release

PNEC (acetone propan-2-one propanone): 30,4 mg/kg
Exposure: Freshwater sediment

PNEC (acetone propan-2-one propanone): 3,04 mg/kg
Exposure: Marine water sediment

PNEC (acetone propan-2-one propanone): 33,3 mg/kg
Exposure: Soil

PNEC (acetone propan-2-one propanone): 10,6 mg/kg
Exposure: Freshwater

PNEC (acetone propan-2-one propanone): 1,06 mg/kg
Exposure: Marine water

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Observe general occupational hygiene.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming 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: AX. Brown

Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

Hand protection

Recommended: butyl rubber. : NA

Eye protection

Use safety glasses with a side shield.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
Liquid	Colourless	Characteristic	-	-	-

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	37,78	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
23	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

9.2. Other information

Solubility in fat	Additional information
-	N/A

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 on "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Avoid static electricity. Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants 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
1,2,4-trimethylbenzene	Rat	LC50	Oral	5000 mg/kg
1,2,4-trimethylbenzene	Rat	LC50	Inhalation	18000 mg/m ³

According to EC-Regulation 1907/2006 (REACH)

heptan-2-one methyl amyl ket...	Rat	LD50	Oral	1670 mg/kg
heptan-2-one methyl amyl ket...	Rabbit	LD50		12,6 mL/kg
heptan-2-one methyl amyl ket...	Guinea pig	LD50	Intraperitoneal	400 mg/kg
Ethylbenzene	Rat	LD50	Oral	3500 mg/kg
Ethylbenzene	Rabbit	LD50		17,8 mL/kg
Ethylbenzene	Guinea pig	LD50	Intraperitoneal	2,624 mL/kg
2-butoxyethyl acetate butylg...	Rat	LD50	Oral	2400 mg/kg
2-butoxyethyl acetate butylg...	Rabbit	LD50		1500 mg/kg
2-butoxyethyl acetate butylg...	Guinea pig	LD50	Oral	3200 mg/kg
Solvent naphtha (petroleum), ...	Rat	LD50	Oral	8400 mg/kg
Solvent naphtha (petroleum), ...	Rabbit	LD50	Dermal	3,48 g/kg
acetone propan-2-one propan...	Rabbit	LD50		> 20 ml/kg
acetone propan-2-one propan...	Rat	LD50		5500 mg/kg
acetone propan-2-one propan...	Rat	LD50	Oral	5800 mg/kg
acetone propan-2-one propan...	Rat	LC50	Inhalation	21,09 ppm/8H
4-methylpentan-2-one isobuty...	Guinea pig	LD50	Oral	1900 mg/kg
4-methylpentan-2-one isobuty...	Guinea pig	LD50	Intraperitoneal	268 mg/kg
4-methylpentan-2-one isobuty...	Guinea pig	LC50	Inhalation	23300 mg/m3
Xylene, mixture of isomeres	Rabbit	LD50		4350 mg/kg
Xylene, mixture of isomeres	Guinea pig	LD50	Oral	5251 mg/kg bw (female)
Xylene, mixture of isomeres	Rabbit	LD50	Dermal	
Xylene, mixture of isomeres	Rat	LD50	Inhalation	> 1,7 g/kg
Xylene, mixture of isomeres	Rat	LD50	Oral	5000 ppm
Xylene, mixture of isomeres	Guinea pig	LD50	Intraperitoneal	3523 mg/kg
				1548 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs.

Aspiration hazard

No data available.

Long term effects

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system.

Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the 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. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

This product contains substances that may cause an allergic reaction in people who are already so disposed.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled.

Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Test duration	Result
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According to EC-Regulation 1907/2006 (REACH)

1,2,4-trimethylbenzene	Crustacean	LC50	96 H	5100 µg/L
1,2,4-trimethylbenzene	Fish	LC50	96 H	5000 µg/L
heptan-2-one methyl amyl ket...	Fish	LC50	96 H	131 mg/L
Ethylbenzene	Crustacean	LC50	96 H	13000 µg/L
Ethylbenzene	Daphnia	EC50	24 H	2200 µg/L
Ethylbenzene	Fish	LC50	96 H	14000 µg/L
acetone propan-2-one propan...	Algae	EC50	120 H	14444 mg/L
acetone propan-2-one propan...	Crustacean	LC50	48 H	7550 mg/L
acetone propan-2-one propan...	Daphnia	EC50	48 H	13500 mg/L
4-methylpentan-2-one isobuty...	Daphnia	EC50	24 H	1550 mg/L
4-methylpentan-2-one isobuty...	Fish	LC50	96 H	540 mg/L
Xylene, mixture of isomeres	Crustacean	EC50	48 H	90000 µg/L
Xylene, mixture of isomeres	Daphnia	LC50	24 H	150 mg/L
Xylene, mixture of isomeres	Fish	LC50	96 H	13500 µg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
acetone propan-2-one propan...	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
1,2,4-trimethylbenzene	Yes	3,63	120
Ethylbenzene	Yes	3,15	No data available
2-butoxyethyl acetate butylg...	No	1,51	No data available
acetone propan-2-one propan...	No	-0,24	No data available
4-methylpentan-2-one isobuty...	No	1,31	No data available
Xylene, mixture of isomeres	Yes	3,16	No data available

12.4. Mobility in soil

1,2,4-trimethylbenzene : Log Koc= 2,952997, Calculated from LogPow (Moderate mobility potential.). heptan-2-one methyl amyl ket...: Log Koc= 1,646362, Calculated from LogPow (High mobility potential.). Ethylbenzene: Log Koc= 2,572885, Calculated from LogPow (Moderate mobility potential.). 2-butoxyethyl acetate butylg...: Log Koc= 1,274169, Calculated from LogPow (High mobility potential.). acetone propan-2-one propan...: Log Koc= -0,111656, Calculated from LogPow (High mobility potential.). 4-methylpentan-2-one isobuty...: Log Koc= 1,115789, Calculated from LogPow (High mobility potential.). Xylene, mixture of isomeres: Log Koc= 2,580804, Calculated from LogPow (Moderate mobility potential.).

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste

EWC code

15 01 04

Specific labelling

-

Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

14.1 – 14.4

ADR/RID

14.1. UN number

1263

14.2. UN proper shipping name

PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

14.3. Transport hazard

3

According to EC-Regulation 1907/2006 (REACH)

class(es)	
14.4. Packing group	III
Notes	-
Tunnel restriction code	D/E

IMDG

UN-no.	1263
Proper Shipping Name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	3
PG*	III
EmS	F-E, S-E
MP**	Yes
Hazardous constituent	-

▼ IATA/ICAO

UN-no.	1263
Proper Shipping Name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	3
PG*	III

14.5. Environmental hazards

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 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 must not be exposed to this product cf. Council Directive 94/33/EC.

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.

IDirective 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

EC Regulation 1272/2008 (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.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs through prolonged or repeated exposure.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.
H412 - Harmful to aquatic life with long lasting effects.
H413 - May cause long lasting harmful effects to aquatic life.
EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

-

Other symbols mentioned in section 2

-

Other

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)) is marked with a blue triangle.

The safety data sheet is validated by

kbb

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

2015-12-22

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

2015-12-22