

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name 482 - Fast Hardener Product no. 00.482 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 Hardener

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 Stövring Denmark tel:+45 70 22 70 70

Contact person

Vibeke Jørgensen

E-mail

info@hbc-system.com SDS date 2015-12-23 SDS Version 1.0

1.4. Emergency telephone number

Use your national or local emergency number See section 4 "First aid measures"

SECTION 2: Hazards identification

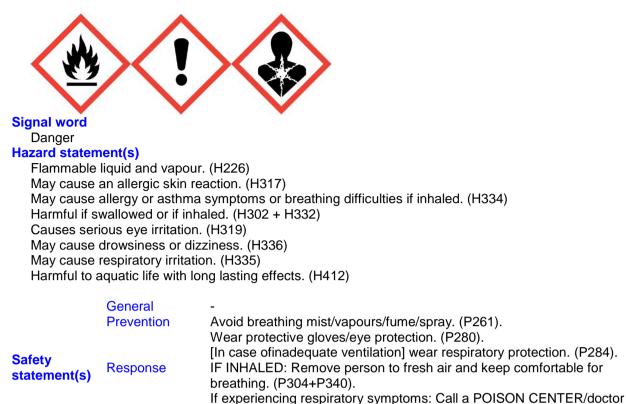
2.1. Classification of the substance or mixture

Flam. Liq. 3; H226 Skin Sens. 1; H317 Resp. Sens. 1; H334 Acute. Tox. 4; H302 + H332 Eye Irrit. 2; H319 STOT SE 3; H336 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)





Storage Disposal

Identity of the substances primarily responsible for the major health hazards

(P342+P311).

Poly Hexamethylene Diisocyanate, heptan-2-one methyl amyl ketone, 3-Isocyanatomethyl-3,5,5trimethylcyclohexyl,isocyanate,oligomers, 1,2,4-trimethylbenzene, p-toluenesulphonyl isocyanate, hexamethylendiisocyanat, 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 hexamethylendiisocyanat. May produce an allergic reaction. Additional warnings

voc

VOC-MAX: 260 g/l, MAXIMUM VOC CONTENT (B/d): 420 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	Poly Hexamethylene Diisocyanate CAS-no: 28182-81-2 EC-no: 927-271-6 REACH-no: 01-2119485796-17 40-60% Acute Tox. 4, STOT SE 3, Eye Irrit. 2, Skin Sens. 1 H317, H319, H332, H335 P
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	heptan-2-one methyl amyl ketone CAS-no: 110-43-0 EC-no: 203-767-1 Index-no: 606-024-00-3 10-15% Flam. Liq. 3, Acute Tox. 4, STOT SE 3 H226, H302, H332, H336 S
NAME: IDENTIFICATION NOS.: CONTENT:	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl,isocyanate,oligomers CAS-no: 53880-05-0 EC-no: 500-125-5 10-15%



CLP CLASSIFICATION:	Skin Sens. 1 H317
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	n-butyl acetate CAS-no: 123-86-4 EC-no: 204-658-1 REACH-no: 01-2119485493-29 Index-no: 607-025-00-1 5-10% Flam. Liq. 3, STOT SE 3 H226, H336, EUH066 S
NAME: combi IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION:	Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex CAS-no: 64742-95-6 EC-no: 265-199-0 Index-no: 649-356-00-4 3-5% Flam. Liq. 1, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H224, H304, H315, H335, H336, H411
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	1,2,4-trimethylbenzene CAS-no: 95-63-6 EC-no: 202-436-9 Index-no: 601-043-00-3 1-3% Flam. Liq. 3, Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2 H226, H315, H319, H332, H335, H411 S
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	Xylene, mixture of isomeres CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32 Index-no: 601-022-00-9 1-3% 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 S
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	p-toluenesulphonyl isocyanate CAS-no: 4083-64-1 EC-no: 223-810-8 Index-no: 615-012-00-7 <1% Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3 H315, H319, H334, H335, EUH014 I
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	hexamethylendiisocyanat CAS-no: 822-06-0 EC-no: 212-485-8 Index-no: 615-011-00-1 <1% Acute tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3 H315, H317, H319, H331, H334, H335 IS

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available. S = Organic solvent P = Prepolymer isocyanate I = Isocyanate monomer

Other informations

ATEmix(inhale, vapour) = 13,064 - 19,596 ATEmix(inhale, dust/mist) = 2,4 -ATEmix(inhale, dust/mist) > 20000 ATEmix(dermal) > 2000 ATEmix(oral) = 638,44 - 957,66 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 4,4 - 0 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,72 - < 1 N chronic (CAT 3) Sum = Sum(Ci/M(chronic)i*25*0.1*10^CATi) = 2,08 - 3,12

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.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

Sensitivity effects: This product contains substances which can give an allergic reaction when inhaled. The allergic reaction allergy will typically set in an hour after exposure and give an inflammatory reaction in the lungs.

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

If experiencing respiratory symptoms: Call a POISON CENTER/doctor

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: 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.

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

Xylene, mixture of isomeres (EH40/2005)

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.)

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

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

n-butyl acetate (EH40/2005, 2008) 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

heptan-2-one methyl amyl ketone (EH40/2005, 2008) 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.)

DNEL / PNEC

DNEL (n-butyl acetate): 102,34 mg/m3 Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-butyl acetate): 960 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Local effects - Workers

DNEL (n-butyl acetate): 960 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Systemic effects - Workers

DNEL (n-butyl acetate): 480 mg/m3 Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-butyl acetate): 480 mg/m3 Exposure: Inhalation Duration of Exposure: Long term – Local effects - Workers



DNEL (n-butyl acetate): 859,7 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-butyl acetate): 102,34 mg/m3 Exposure: Inhalation Duration of Exposure: Long term – Local effects - General population

DNEL (n-butyl acetate): 859,7 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Local effects - General population 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

PNEC (n-butyl acetate): 35,6 mg/L Exposure: Sewage Treatment Plant

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): 0,09903 mg/kg Exposure: Soil



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

PNEC (Xylene, mixture of isomeres): 6,58 mg/L Exposure: Sewage Treatment Plant

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

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



Liquid Colourless Characteristic
Melting point (°C) Boiling point (°C) Vapour pressure (mm Hg) 37,78 - Data on fire and explosion hazards Self ignition (°C) Flashpoint (°C) Ignition (°C) 32 - Explosion limits (Vol %) Oxidizing properties Solubility Solubility
Flashpoint (°C) Ignition (°C) Self ignition (°C) 32 Explosion limits (Vol %) Oxidizing properties Solubility Solubility
32 Explosion limits (Vol %) Oxidizing properties
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

Substance	Species	Test	Route of exposure	Result
p-toluenesulphonyl isocyanate	Rat	LD50	Oral	2234 mg/kg
p-toluenesulphonyl isocyanate	Rat	LD50	Intraperitoneal	775 mg/kg
p-toluenesulphonyl isocyanate	Rat	LC50	Inhalation	> 640 ppm
Xylene, mixture of isomeres	Rabbit	LD50		4350 mg/kg
Xylene, mixture of isomeres	Guinea pig	LD50	Oral	5251 mg/kg bw
Xylene, mixture of isomeres	Rabbit	LD50	Dermal	(female)
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
1,2,4-trimethylbenzene	Rat	LC50	Oral	1548 mg/kg
1,2,4-trimethylbenzene	Rat	LC50	Inhalation	5000 mg/kg
Solvent naphtha (petroleum),	Rat	LD50	Oral	18000 mg/m3
Solvent naphtha (petroleum),	Rabbit	LD50	Dermal	8400 mg/kg
n-butyl acetate	Rat	LD50	Oral	3,48 g/kg
n-butyl acetate	Rabbit	LD50		10768 g/kg
n-butyl acetate	Rat	LD50	Oral	> 5000 mg/kg
n-butyl acetate	Rat	LC50	Inhalation	> 6400 mg/kg
n-butyl acetate	Rat	LC50	Inhalation	2000 ppm
heptan-2-one methyl amyl ket	Rat	LD50	Oral	21.1 mg/l/4h
heptan-2-one methyl amyl ket	Rabbit	LD50		1670 mg/kg
heptan-2-one methyl amyl ket	Guinea pig	LD50	Intraperitoneal	12,6 mL/kg
Poly Hexamethylene Diisocyanat	Rat	LC50	Inhalation	400 mg/kg 18500 mg/m3

Skin corrosion/irritation No data available. Serious eye damage/irritation Causes serious eye irritation. **Respiratory or skin sensitisation**

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May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause respiratory irritation.May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

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.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

Sensitivity effects: This product contains substances which can give an allergic reaction when inhaled. The allergic reaction allergy will typically set in an hour after exposure and give an inflammatory reaction in the lungs.

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.

12.1. Toxicity				
Substance	Species	Test	Test duration	Result
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
1,2,4-trimethylbenzene	Crustacean	LC50	96 H	5100 µg/L
1,2,4-trimethylbenzene	Fish	LC50	96 H	5000 µg/L
n-butyl acetate	Daphnia	EC50	24 H	205 mg/L
n-butyl acetate	Fish	LC50	96 H	100 mg/L
n-butyl acetate	Crustacean	LC50	48 h	32000 ug/L
heptan-2-one methyl amyl ket	Fish	LC50	96 H	131 mg/Ľ
12.2. Persistence and degradabilit	ty			
Substance	Biodegradabil	itv	Test	Result
n-butyl acetate	Yes		No data available	No data available
12.3. Bioaccumulative potential				
Substance	Potential bioaccumulation		LogPow	BFC
Xylene, mixture of isomeres	Yes		3,16	No data available
1,2,4-trimethylbenzene	Yes		3,63	120
n-butyl acetate	No		1,78	No data available

SECTION 12: Ecological information

12.4. Mobility in soil

Xylene, mixture of isomeres: Log Koc= 2,580804, Calculated from LogPow (Moderate mobility potential.). 1,2,4trimethylbenzene : Log Koc= 2,952997, Calculated from LogPow (Moderate mobility potential.). n-butyl acetate: Log Koc= 1,487982, Calculated from LogPow (High mobility potential.). heptan-2-one methyl amyl ket...: Log Koc= 1,646362, Calculated from LogPow (High 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 class(es)	3
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	-
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**

The user of this product must have taken special training in working with polyurethane and epoxy products. 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

- H224 Extremely 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.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- EUH014 Reacts violently with water.

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)

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

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