

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CELLULOSE THINNER 124 / DR 169 KG

Version 8.0

Print Date 08.07.2022

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

1.1. Product identifier

Trade name : CELLULOSE THINNER 124 / DR 169 KG
REACH Status : Each component of the product is either registered or exempted from registration obligations according to REACH Regulation (EC) No 1907/2006

UFI : V9RM-30CR-900C-TJUQ
UFI code notified in : Denmark, Finland, Norway, Sweden

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

Use of the Substance/Mixture : Solvent

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic A/S
Borupvang 5 B
DK 2750 Ballerup
Telephone : +45 43 29 28 00
Telefax : +45 43 29 27 00
E-mail address : SDS.DK@brenntag-nordic.com
Responsible/issuing person : Environment & Quality

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: +45 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: +358 9 471 977 Finnish Poison Information Center (24 h/day)
Norway: +47 22 59 13 00 Giftinformasjonen (døgnåpent)
Sweden: +46-8-33 70 43 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CELLULOSE THINNER 124 / DR 169 KG**Classification according to Regulation (EC) No 1272/2008**

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Aspiration hazard	Category 1	---	H304
Skin irritation	Category 2	---	H315
Eye irritation	Category 2	---	H319
Specific target organ toxicity - single exposure	Category 3	Central nervous system	H336
Reproductive toxicity	Category 2	---	H361d
Specific target organ toxicity - repeated exposure	Category 2	Central nervous system	H373
Long-term (chronic) aquatic hazard	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

- Human Health : Chronic exposure damages the brain and the central nervous system.
Vapours may cause drowsiness and dizziness., May cause respiratory tract irritation.
Causes skin irritation.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
- Physical and chemical hazards : Flammable. Heating may produce combustible vapour which can form explosive mixture with air., To be stored as flammable liquid.
- Potential environmental effects : Harmful to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

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	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H361d	Suspected of damaging the unborn child.
	H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	: P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- toluene
- acetone
- propan-2-ol

2.3. Other hazards

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Contains organic solvents.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
toluene			
Index-No. : 601-021-00-3	>= 25	Flam. Liq.2	H225
CAS-No. : 108-88-3		Repr.2	H361d
EC-No. : 203-625-9		Asp. Tox.1	H304
EU REACH- : 01-2119471310-51-xxxx		Skin Irrit.2	H315
Reg. No.		STOT SE3	H336
		STOT RE2	H373
		Aquatic Chronic3	H412
acetone			
Index-No. : 606-001-00-8	>= 10 - < 20	Flam. Liq.2	H225
CAS-No. : 67-64-1		Eye Irrit.2	H319
EC-No. : 200-662-2		STOT SE3	H336
EU REACH- : 01-2119471330-49-xxxx			
Reg. No.			
propan-2-ol			
Index-No. : 603-117-00-0	>= 5 - < 10	Flam. Liq.2	H225
CAS-No. : 67-63-0		Eye Irrit.2	H319
EC-No. : 200-661-7		STOT SE3	H336
EU REACH- : 01-2119457558-25-xxxx			
Reg. No.			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

CELLULOSE THINNER 124 / DR 169 KG**4.1. Description of first aid measures**

General advice	: Do not leave the victim unattended. Never give anything by mouth to an unconscious person.
If inhaled	: Move to fresh air. Call a physician immediately.
In case of skin contact	: Take off all contaminated clothing immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. Consult a physician.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	: Water spray, foam, dry powder or CO ₂ .
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Highly flammable liquid and vapour. Fire will produce dense black smoke containing hazardous combustion products (see section 10). Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	: Carbon oxides

5.3. Advice for firefighters

Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
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Further advice : No further information available.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Evacuate personnel to safe areas. Do not breathe vapours or spray mist. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid breathing mist or vapours. Pregnant and nursing women may not be exposed to the product. Take in consideration the national regulation. Provide for good ventilation. Mechanical ventilation can be needed. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

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Advice on protection against fire and explosion : Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Use explosion-proof equipment. Vapours are heavier than air and may spread along floors.

Further information on storage conditions : Storage must follow the regulations for flammable liquids: Class I-1 (DK only).

Suitable packaging materials : Stainless steel

Unsuitable packaging materials : , Rubber, Synthetic material

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	toluene	CAS-No. 108-88-3
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

DNEL Workers, Long-term - systemic effects, Inhalation	:	192 mg/m ³
DNEL Workers, Long-term - local effects, Inhalation	:	192 mg/m ³
DNEL Workers, Acute - systemic effects, Inhalation	:	384 mg/m ³
DNEL Workers, Acute - local effects, Inhalation	:	384 mg/m ³
DNEL Workers, Long-term - systemic effects, Skin contact	:	384 mg/kg bw/day
DNEL Consumers, Long-term - systemic effects, Inhalation	:	56,5 mg/m ³
DNEL Consumers, Long-term - local effects, Inhalation	:	56,5 mg/m ³
DNEL Consumers, Acute - systemic effects, Inhalation	:	226 mg/m ³
DNEL		

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Consumers, Acute - local effects, Inhalation	:	226 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	226 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	8,13 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water (AF = 1), extrapolated	:	0,68 mg/l
Marine water (AF = 1), extrapolated	:	0,68 mg/l
Intermittent releases (AF = 1), extrapolated	:	0,68 mg/l
Sewage treatment plant (STP) (AF = 1), extrapolated	:	13,61 mg/l
Fresh water sediment Partition coefficient	:	16,39 mg/kg dry weight (d.w.)
Marine sediment	:	16,39 mg/kg dry weight (d.w.)
Soil Partition coefficient	:	2,89 mg/kg dry weight (d.w.)

Component:	toluene	CAS-No. 108-88-3
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Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
50 ppm, 192 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
100 ppm, 384 mg/m³
Indicative

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Skin designation:
Can be absorbed through the skin.

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):
25 ppm, 94 mg/m³

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The substance has an EC-limit value

Component:	acetone	CAS-No. 67-64-1
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Skin contact	:	186 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	1210 mg/m ³
DNEL		
Workers, Acute - local effects, Inhalation	:	2420 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	62 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	200 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	62 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	10,6 mg/l
Marine water	:	1,06 mg/l
Intermittent releases	:	21 mg/l
Sewage treatment plant (STP)	:	100 mg/l
Fresh water sediment	:	30,4 mg/kg, 30,4 mg/kg d.w.
Marine sediment	:	3,04 mg/kg, 3,04 mg/kg d.w.
Soil	:	29,5 mg/kg

Component:	acetone	CAS-No. 67-64-1
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Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
500 ppm, 1.210 mg/m³
Indicative

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):

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250 ppm, 600 mg/m³

Component:	propan-2-ol	CAS-No. 67-63-0
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Skin contact	:	888 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	500 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	319 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	89 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	26 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	140,9 mg/l
Marine water	:	140,9 mg/l
Intermittent releases	:	140,9 mg/l
Sewage treatment plant (STP)	:	2251 mg/l
Sediment	:	552 mg/kg d.w.
Soil	:	28 mg/kg
Secondary poisoning	:	160 mg/kg food

Component:	propan-2-ol	CAS-No. 67-63-0
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Other Occupational Exposure Limit Values

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):
200 ppm, 490 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Provide for good ventilation.

CELLULOSE THINNER 124 / DR 169 KG**Personal protective equipment***Respiratory protection*

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
Filter type A for organic gases and vapors.

Hand protection

Advice : Protective gloves complying with EN 374.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Protective gloves should be replaced at first signs of wear.
Choose right chemical protection as:

Material : PVC
Break through time : > 8 h

Eye protection

Advice : Safety glasses with side-shields

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
In case of large spillage contact the local authority.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form : liquid
Physical state : liquid
Colour : clear, colourless
Odour : aromatic
Odour Threshold : No data available
Freezing point : No data available
Boiling point/boiling range : > 56 °C
Flammability : No data available
Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	-5,5 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	< 20,5 mm ² /s (40 °C)
Flow time	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	< 1100 hPa
Relative density	:	No data available
Density	:	0,8149 g/cm ³ (50 °C) 0,8451 g/cm ³ (20 °C) 0,8499 g/cm ³ (15 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

Advice : May react with strong acids and strong oxidizing agents.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Conditions to avoid : Avoid high temperatures.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents, Strong acids, Rubber, Synthetic material

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Data for the product

Acute toxicity

Oral

May be fatal if swallowed and enters airways., Already after ingestion or vomiting of small quantities may cause cough and possibly difficulty in breathing. Chemical pneumonia may occur in the course of a day.

Inhalation

Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.

Dermal

No data available

Irritation

Skin

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Result : Causes skin irritation.

Eyes

Result : Causes serious eye irritation.

Sensitisation

No data available

CMR effects
CMR Properties

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

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

Reproductive toxicity : Suspected of damaging the unborn child.

Specific Target Organ Toxicity
Single exposure

Remarks : May cause drowsiness or dizziness.

Repeated exposure

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

Other toxic properties
Repeated dose toxicity

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.,

Further information

Experience with human exposure : Contains organic solvents.
Chronic exposure damages the brain and the central nervous system.,

Component: toluene CAS-No. 108-88-3

Acute toxicity
Oral

LD50 : 5580 mg/kg (Rat, male) (OECD Test Guideline 401)

Inhalation

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LC50 : 28,1 mg/l (Rat, male and female; 4 h; vapour) (OECD Test Guideline 403)
 LC50 : 25,7 mg/l (Rat, male; 4 h; vapour) (OECD Test Guideline 403)
 LC50 : 30 mg/l (Rat, female; 4 h; vapour) (OECD Test Guideline 403)

Dermal

LD50 : > 5000 mg/kg (Rabbit, male)

Sensitisation

Result : not sensitizing (Maximisation Test; Guinea pig) (OECD Test Guideline 406)

Component: acetone CAS-No. 67-64-1

Acute toxicity
Oral

LD50 : 5800 mg/kg (Rat) (OECD Test Guideline 401) Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.

Inhalation

LC50 : ca. 76 mg/l (Rat; 4 h) May cause pain in nose and throat, nausea, dizziness, headache, deteriorate reactivity and at high concentration unconsciousness.

Dermal

LD50 : > 15800 mg/kg (Rat)

Sensitisation

Result : not sensitizing (Guinea pig) (OECD Test Guideline 406)

Further information

Experience with human exposure : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
 Chronic exposure may cause dermatitis.
 Chronic inhalation causes tiredness, headache and rhinitis.,

Component: propan-2-ol CAS-No. 67-63-0

Acute toxicity

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Oral

LD50 : 5840 mg/kg (Rat) (OECD Test Guideline 401)
Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.

Inhalation

LC50 : > 25 mg/l (Rat; 6 h; vapour) (OECD Test Guideline 403)

Dermal

LD50 : 13900 mg/kg (Rabbit) (OECD Test Guideline 402)

Sensitisation

Result : not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	toluene	CAS-No. 108-88-3
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Acute toxicity

Fish

LC50 : 5,5 mg/l (Oncorhynchus kisutch (coho salmon); 96 h) (flow-through test)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 3,78 mg/l (Ceriodaphnia dubia (water flea); 48 h) (US-EPA)

CELLULOSE THINNER 124 / DR 169 KG**algae**

EC50 : 134 mg/l (Chlamydomonas angulosa; 3 h)

Bacteria

EC50 : 84 mg/l (Nitrosomonas sp; 24 h)

Chronic toxicity**Fish**

NOEC : 1,39 mg/l (Oncorhynchus kisutch (Coho salmon); 40 d)

Aquatic invertebrates

NOEC 0,74 mg/l (Ceriodaphnia dubia (water flea); 7 d)

Component: acetone CAS-No. 67-64-1

Acute toxicity**Fish**

LC50 : 5.540 mg/l (Oncorhynchus mykiss; 96 h)

LC50 11.000 mg/l (Alburnus alburnus; 96 h)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 8.800 mg/l (Daphnia pulex (Water flea); 48 h)

algae

NOEC : 430 mg/l (Prorocentrum minimum; 96 h)

Bacteria

EC12 : 1000 mg/l (activated sludge; 0,5 h) (static test; End point: Respiration inhibition; OECD Test Guideline 209)

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Chronic toxicity
Aquatic invertebrates

NOEC : 2212 mg/l (Daphnia pulex (Water flea); 28 d) (End point: Reproduction)

Component: **propan-2-ol** **CAS-No. 67-63-0**

Acute toxicity
Fish

LC50 : 9.640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 9.714 mg/l (Daphnia magna; 24 h) (static test; OECD Test Guideline 202)

algae

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h)
 LOEC : 1000 mg/l (algae; 8 d)

Bacteria

EC50 : > 100 mg/l (Bacteria) no harming action

12.2. Persistence and degradability

Component: **toluene** **CAS-No. 108-88-3**

Persistence and degradability
Persistence

Result : Oxidises rapidly by photo-chemical reactions in air.

Biodegradability

Result : 86 % (Exposure Time: 20 d) Readily biodegradable.

Component: **acetone** **CAS-No. 67-64-1**

Persistence and degradability

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Persistence

Result : decomposition by hydrolysis.

Biodegradability

Result : 91 % (Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

Component:	propan-2-ol	CAS-No. 67-63-0
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Persistence and degradability

Persistence

Result : Transformation due to hydrolysis not expected to be significant.
Transformation due to photolysis not expected to be significant.

Biodegradability

Result : 53 % (aerobic; domestic sewage; Related to: O₂ consumption;
Exposure Time: 5 d)(Directive 67/548/EEC, Annex V, C.5)Readily biodegradable.

12.3. Bioaccumulative potential

Component:	toluene	CAS-No. 108-88-3
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Bioaccumulation

Result : log Kow 2,73 (20 °C; pH 7)
: BCF: 90; The product has low potential bioaccumulation.

Component:	acetone	CAS-No. 67-64-1
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Bioaccumulation

Result : log Kow -0,24
: BCF: 3; (BCFWIN-software)Bioaccumulation is not expected.

Component:	propan-2-ol	CAS-No. 67-63-0
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Bioaccumulation

Result : log Kow 0,05
: Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	toluene	CAS-No. 108-88-3
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Mobility

Water : Floats on water.
Soil : Mobile in soils

Component: acetone CAS-No. 67-64-1

Mobility

Air : The product evaporates readily.
Water : The product is water soluble.
Soil : Mobile in soils

Component: propan-2-ol CAS-No. 67-63-0

Mobility

Water : The product is water soluble.
Soil : Mobile in soils

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component: toluene CAS-No. 108-88-3

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component: acetone CAS-No. 67-64-1

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component: propan-2-ol CAS-No. 67-63-0

Results of PBT and vPvB assessment

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Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Component:	toluene	CAS-No. 108-88-3
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	acetone	CAS-No. 67-64-1
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Biochemical Oxygen Demand (BOD)

Result : 1760 mg/g (Incubation time: 5 d)

Chemical Oxygen Demand (COD)

Result : 2100 mg/g

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	propan-2-ol	CAS-No. 67-63-0
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Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Eliminate waste in conditions authorized by the regulations.
Store waste in containers provided for this purpose. Do not dump in drains, water sheets or the ground.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

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European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information**14.1. UN number**

1993

14.2. UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.
(Toluene, Acetone)
Special Provision 640D

RID : FLAMMABLE LIQUID, N.O.S.
(Toluene, Acetone)
Special Provision 640D

IMDG : FLAMMABLE LIQUID, N.O.S.
(Toluene, Acetone)

14.3. Transport hazard class(es)

ADR-Class : 3
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 3; F1; 33; (D/E)

RID-Class : 3
(Labels; Classification Code; Hazard Identification Number) 3; F1; 33

IMDG-Class : 3
(Labels; EmS) 3; F-E, S-E

14.4. Packaging group

ADR : II
RID : II
IMDG : II

14.5. Environmental hazards

Environmentally hazardous according to ADR : no
Environmentally hazardous according to RID : no
Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

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14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

Other regulations : As a principal rule, persons under 18 years are not allowed to work with this substance.
Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.

Pregnant and nursing women may not be exposed to the product. Take in consideration the national regulation.
This SDS is created according to European regulations and national specifics for Denmark.

Component:	toluene	CAS-No. 108-88-3
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. Regulation 273/2004, Drug Precursors, Category 3 : Scheduled substance Combined Nomenclature (CN) code: , 2902 30 00

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 40; Listed
Point Nos.: , 3; Listed
Point Nos.: , 48; Listed
EC Number: , 203-625-9

EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List : Reference number: 185; Listed

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of Restricted Substances
in Cosmetic Products

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Qualifying quantity for the application of Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Component:	acetone	CAS-No. 67-64-1
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EU. Regulation 273/2004, Drug Precursors, Category 3 : Scheduled substance Combined Nomenclature (CN) code: , 2914 11 00

EU. Restricted (Annex I) & Reportable (Annex II) Explosives Precursors, Regulation 2019/1148/EU on Explosives Precursors : ; ANNEX II: REPORTABLE EXPLOSIVES PRECURSORS: List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 40; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Qualifying quantity for the application of Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

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Component:	propan-2-ol	CAS-No. 67-63-0
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 3; Listed
Point Nos.: , 40; Listed

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 200-661-7; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Qualifying quantity for the application of Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.
Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Qualifying quantity for the application of Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

15.2. Chemical safety assessment

The chemical safety assessment of substances from this mixture has been done.

SECTION 16: Other information

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H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Full text of the Notes referred to under section 3.**Abbreviations and Acronyms**

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration

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NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Key literature references : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.