

SAFETY DATA SHEET CELLULOSE THINNERS STANDARD

This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No 1907/2006 as amended by Regulations (EU) No. 453/2010 and (EU) 2015/830

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

1.1. Product identifier

Product name CELLULOSE THINNERS STANDARD

Product number STDTHINXX

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

Identified uses A volatile, liquid, solvent-based product for industrial and professional use to thin appropriate

paints to ease application.

Uses advised against FOR PROFESSIONAL USE ONLY. Not for sale to or use by the general public

1.3. Details of the supplier of the safety data sheet

Supplier Manor Coating Systems Ltd

Otley Road Shipley West Yorkshire BD17 7DP

Tel: 01274 587351 Fax: 01274531360

chiefchemist@manorcoatingsystems.co.uk

Contact person Chief Chemist

1.4. Emergency telephone number

Emergency telephone Manor Coating Systems Ltd. 01274 587351 may be contacted (Office hours only)

National emergency telephone Members of the public should contact:

number In England and Wales: NHS Direct 0845 4647 or 111

In Scotland: NHS24 08454 24 24 24 In Republic of Ireland: 01 809 2166

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram









Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

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.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe vapour/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental label

information

RCH002a Restricted to professional users.

Contains

${\sf TOLUENE,\,ETHYL\,ACETATE,\,ACETONE,\,XYLENE,\,HEXANE-norm}$

Supplementary precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P312 Call a POISON CENTER/ doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Labelling notes

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TOLUENE		10-30%
CAS number: 108-88-3	EC number: 203-625-9	REACH registration number: 01- 2119471310-51-0000
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
Repr. 2 - H361d		
STOT SE 3 - H336		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		

ETHYL ACETATE		10-30%
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01- 2119475103-46-0000
Classification		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
STOT SE 3 - H336		

ACETONE			10-30%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-0000	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			

XYLENE		10-30%
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01- 2119488216-32-0000
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
STOT SE 3 - H335		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		

METHYL ACETATE		5-10%
CAS number: 79-20-9	EC number: 201-185-2	REACH registration number: 01- 2119459211-47-0000
Classification		
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

PROPAN-2-OL			5-10%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25-0000	
Classification			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			

ETHANOL			1-5%	
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01- 2119457610-43-0000		
		21101010101010000		
Classification				
Flam. Liq. 2 - H225				
Eye Irrit. 2 - H319				

BUTANONE		1-5%
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01- 2119457290-43-0000
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

BUTYL ACETATE -norm			1-5%
CAS number: 123-86-4	EC number: 204-658-1	REACH registration number: 01- 2119485493-29-0000	
Classification			
Flam. Liq. 3 - H226			
STOT SE 3 - H336			

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ISOPROPYL ACETATE 1-5%

CAS number: 108-21-4 EC number: 203-561-1 REACH registration number: 01-

2119537214-46-0000

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC

1-5%

CAS number: 64742-95-6 EC number: 265-199-0 REACH registration number: 01-

2119486773-24-0000

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H335, H336

Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

CYCLOHEXANE 1-5%

CAS number: 110-82-7 EC number: 203-806-2 REACH registration number: 01-

2119463273-41-0000

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

HEXANE-norm 1-5%

CAS number: 110-54-3 EC number: 203-777-6 REACH registration number: 01-

2119480412-44-0000

Classification

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

Repr. 2 - H361f

STOT SE 3 - H336

STOT RE 2 - H373

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

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METHANOL		1 - <3%
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01- 2119433307-44-0000
Classification		
Flam. Liq. 2 - H225		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		

PROPYL ACETATE			1-5%
CAS number: 109-60-4	EC number: 203-686-1	REACH registration number: 01- 2119484620-39-0000	
Classification			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			

4-METHYLPENTAN-2-ONE			1-5%
CAS number: 108-10-1	EC number: 203-550-1	REACH registration number: 01-2119473980-30-0000	
Classification			
Flam. Liq. 2 - H225			
Acute Tox. 4 - H332			
Eye Irrit. 2 - H319			
STOT SE 3 - H335			

HEPTANE		0.1 - <1%
CAS number: 142-82-5	EC number: 205-563-8	REACH registration number: 01- 2119457603-38-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

Ingredient notes

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as

PBT/vPvB or included in the Candidate List.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

If unconscious place in recovery position and seek medical advice.

Inhalation Remove to fresh air, keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

Ingestion If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious)

and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Skin contact Remove contaminated clothing.

Wash skin thoroughly with soap and water or use recognised skin cleanser.

Do NOT use solvents or thinners.

Eye contact Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for

at least 10 minutes and seek immediate medical advice.

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

In case of overexposure, organic solvents may depress the central nervous system causing

dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion Ingestion may cause nausea, diarrhoea and vomiting.

Skin contact Prolonged or repeated contact with skin may cause soreness, irritation or dry skin due to a

defatting action.

Eye contact The liquid splashed in the eyes may cause irritation and reversible damage.

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media recommended: alcohol resistant foam, CO2, powders, water spray/mist

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire will produce dense black smoke.

Exposure to decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required.

5.3. Advice for firefighters

Protective actions duringCool closed containers exposed to fire with water.

firefighting Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Exclude sources of ignition and ventilate the area.

Avoid breathing vapours.

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Do not allow to enter drains or watercourses.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in

accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth,

vermiculite, diatomaceous earth and place in container for disposal according to local

regulations (see section 13).

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section

13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in Section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear anti-static footwear and clothing and floors should be of the conducting type.

Isolate from sources of heat, sparks and open flame.

Non-sparking tools should be used.

Avoid skin and eye contact.

Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture.

Avoid inhalation of dust from sanding.

Smoking, eating and drinking should be prohibited in application area.

For personal protection see Section 8.

Never use pressure to empty: container is not a pressure vessel.

Always keep in containers of same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or water courses. Wash hands before eating and before leaving the site.

Remove contaminated clothing and protective equipment before entering eating areas.

Information on fire and explosion protection.

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in accordance with the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR.

The principles contained in the HSE guidance note Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product. Notes on joint storage.

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Additional information on storage conditions

Observe label precautions.

Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition.

No smoking.

Prevent unauthorised access.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³ Sk

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³ Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

METHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 616 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 770 mg/m³

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m³ Sk

BUTYL ACETATE -norm

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³ Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

ISOPROPYL ACETATE

Short-term exposure limit (15-minute): WEL 200 ppm 849 mg/m³

SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC

Long-term exposure limit (8-hour TWA): SUP 25 ppm 120 mg/m³

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ SL

PROPYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 849 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 1060 mg/m³

4-METHYLPENTAN-2-ONE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³ Sk

HEPTANE

Long-term exposure limit (8-hour TWA): WEL 500 ppm WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin. Sk = Can be absorbed through skin.

Ingredient comments

According to EH40 - List of approved workplace exposure limits.

TOLUENE (CAS: 108-88-3)

DNEL Industry - Inhalation; Long term systemic effects: 192 mg/m³

Industry - Inhalation; Short term systemic effects: 384 mg/m³ Industry - Dermal; Long term systemic effects: 384 mg/m³ Consumer - Inhalation; Long term systemic effects: 56.5 mg/m³ Consumer - Inhalation; Short term systemic effects: 226 mg/m³ Consumer - Inhalation; Long term local effects: 56.5 mg/m³ Consumer - Inhalation; Long term local effects: 226 mg/m³ Consumer - Dermal; Long term systemic effects: 226 mg/kg/day

Consumer - Oral; Long term systemic effects: 8.13 mg/kg/day

PNEC - Fresh water; 0.68 mg/l

- Marine water; 0.68 mg/l

- STP; 13.61 mg/l

Sediment (Freshwater); 16.39 mg/kgSediment (Marinewater); 16.39 mg/kg

- Soil; 2.89 mg/kg

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ETHYL ACETATE (CAS: 141-78-6)

DNEL Industry - Inhalation; Long term systemic effects: 734 mg/m³

Industry - Dermal; Long term systemic effects: 63 mg/kg/day Consumer - Inhalation; Long term systemic effects: 367 mg/m³ Consumer - Dermal; Long term systemic effects: 37 mg/kg/day Industry - Inhalation; Short term systemic effects: 1468 mg/m³ Consumer - Inhalation; Short term systemic effects: 734 mg/m³

Consumer - Oral; Long term systemic effects: 4.5 mg/kg/day

PNEC - Fresh water; 0.26 - Soil; 0.148 mg/kg

- Sediment (Freshwater); 1.15 mg/kg

- STP; 650 mg/l

- Intermittent release; 1.65 mg/l

- Sediment (Marinewater); 0.115 mg/kg

ACETONE (CAS: 67-64-1)

DNEL Industry - Dermal; Long term : 186 mg/kg/day

Industry - Inhalation; Short term: 2420 mg/m³ Industry - Inhalation; Long term: 1210 mg/m³ Consumer - Oral; Long term: 62 mg/kg/day Consumer - Dermal; Long term: 62 mg/kg/day Consumer - Inhalation; Long term: 200 mg/m³

PNEC - Fresh water; 10.6 mg/l

- Sediment (Freshwater); 30.4 mg/kg

- Marine water; 1.06 mg/l

- Sediment, Sediment (Marinewater); 3.04 mg/kg

Soil; 29.5 mg/lSTP; 29.5 (100) mg/l

-; Intermittent releases 21 mg/l

XYLENE (CAS: 1330-20-7)

Biological limit values 650 mmol methyl hippuric acid/mol creatinine in urine. Post shift sampling

DNEL Industry - Inhalation; Short term systemic effects: 289 mg/m³

Industry - Inhalation; Long term systemic effects: 77 mg/m³ Industry - Inhalation; Short term local effects: 289 mg/m³ Industry - Inhalation; Long term local effects: 77 mg/m³ Industry - Dermal; Short term systemic effects: 174 mg/m³ Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³ Consumer - Inhalation; Short term local effects: 174 mg/m³ Consumer - Inhalation; Short term systemic effects: 174 mg/m³

Consumer - Dermal; Long term systemic effects: 108 mg/kg/day Consumer - Oral; Long term systemic effects: 1.6 mg/kg/day

PNEC - Fresh water; 0.327 mg/l

Marine water; 0.327 mg/l
Intermittent release; 0.327 mg/l
Sediment (Freshwater); 12.46 mg/kg
Sediment (Marinewater); 12.46 mg/kg

- Soil; 2.31 mg/kg

- STP; 6.58 mg/l

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PROPAN-2-OL (CAS: 67-63-0)

DNEL Industry - Inhalation; Long term systemic effects: 500 mg/m³

Industry - Dermal; Long term systemic effects: 888 mg/m³ Consumer - Inhalation; Long term systemic effects: 89 mg/m³ Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Oral; Long term systemic effects: 26 mg/kg/day

PNEC - Fresh water; 140.9 mg/l

- Marine water; 140.9 mg/l - Intermittent release; 140.9 mg/l

- STP; 2251 mg/l

Sediment (Freshwater); 552 mg/kgSediment (Marinewater); 552 mg/kg

- Soil; 28 mg/kg

ETHANOL (CAS: 64-17-5)

DNEL Industry - Inhalation; Short term local effects: 1900 mg/m³

Industry - Dermal; Long term systemic effects: 343 mg/kg/day Industry - Inhalation; Long term systemic effects: 950 mg/m³ Consumer - Inhalation; Short term local effects: 950 mg/m³ Consumer - Dermal; Long term systemic effects: 206 mg/kg/day Consumer - Inhalation; Long term systemic effects: 114 mg/m³ Consumer - Oral; Long term systemic effects: 87 mg/kg/day

PNEC - Fresh water; 96 mg/l

Marine water; 0.79 mg/lSediment; 3.6 mg/kgSoil; 0.63 mg/kg

BUTANONE (CAS: 78-93-3)

Biological limit values 70 µmol butan-2-one/L in urine Post shift sampling.

DNEL Industry - Dermal; Long term systemic effects: 1161 mg/kg/day

Industry - Inhalation; Long term systemic effects: 600 mg/m³ Consumer - Dermal; Long term systemic effects: 412 mg/kg/day Consumer - Inhalation; Long term systemic effects: 106 mg/m³ Consumer - Oral; Long term systemic effects: 31 mg/kg/day

PNEC - Fresh water; 55.8 mg/l

- Marine water; 55.8 mg/l

- Soil; 22.5 mg/kg

- Intermittent release; 55.8 mg/l

- STP; 709 mg/l

Sediment (Freshwater); 284.7 mg/kgSediment (Marinewater); 284.7 mg/kg

BUTYL ACETATE -norm (CAS: 123-86-4)

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DNEL Industry - Inhalation; Short term systemic effects: 960 mg/m³

Industry - Inhalation; Short term local effects: 960 mg/m³ Industry - Inhalation; Long term systemic effects: 480 mg/m³ Industry - Inhalation; Long term local effects: 480 mg/m³

Consumer - Inhalation; Short term systemic effects: 859.7 mg/m³ Consumer - Inhalation; Short term local effects: 859.7 mg/m³ Consumer - Inhalation; Long term systemic effects: 102.34 mg/m³ Consumer - Inhalation; Long term local effects: 102.34 mg/m³

PNEC - Fresh water; 0.18 mg/l

- Marine water; 0.018 mg/l

- STP; 35.6 mg/l

Sediment (Freshwater); 0.981 mg/kgSediment (Marinewater); 0.0981 mg/kg

- Soil; 0.0903 mg/kg

- Intermittent release; 35.6 mg/l

HEXANE-norm (CAS: 110-54-3)

DNEL Industry - Inhalation; Long term systemic effects: 75 mg/m³

Industry - Dermal; systemic effects: 11 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 16 mg/m³ Consumer - Dermal; Long term systemic effects: 5.3 mg/kg/day Consumer - Oral; Long term systemic effects: 4 mg/kg/day

METHANOL (CAS: 67-56-1)

DNEL Industry - Dermal; Short term systemic effects: 40 mg/kg/day

Industry - Dermal; Long term systemic effects: 40 mg/kg/day Industry - Inhalation; Short term systemic effects: 260 mg/m³ Industry - Inhalation; Short term local effects: 260 mg/m³ Industry - Inhalation; Long term systemic effects: 260 mg/m³ Industry - Inhalation; Long term local effects: 260 mg/m³ Consumer - Oral; Short term systemic effects: 8 mg/kg/day Consumer - Dermal; Short term systemic effects: 8 mg/kg/day Consumer - Inhalation; Short term systemic effects: 50 mg/m³

Consumer - Inhalation; Long term systemic effects: 50 mg/m³ Consumer - Oral; Long term systemic effects: 8 mg/kg/day

PNEC - Fresh water; 154 mg/l

- Marine water; 15.4 mg/l

Soil; 23.5 mg/kgSTP; 100 mg/l

Intermittent release; 1540 mg/lSediment (Marinewater); 7.7 mg/kgSediment (Freshwater); 77 mg/kg

PROPYL ACETATE (CAS: 109-60-4)

DNEL Industry - Inhalation; Long term systemic effects: 420 mg/m³

Industry - Inhalation; Short term systemic effects: 840 mg/m³ Industry - Inhalation; Long term local effects: 420 mg/m³ Industry - Inhalation; Short term local effects: 840 mg/m³ Consumer - Inhalation; Long term systemic effects: 149 mg/m³ Consumer - Inhalation; Short term systemic effects: 298 mg/m³ Consumer - Inhalation; Long term local effects: 149 mg/m³

Consumer - Inhalation; Short term local effects: 298 mg/m³

PNEC - Fresh water; 0.06 mg/l

Marine water; 0.006 mg/lIntermittent release; 0.6 mg/l

- STP; 1 mg/l

Sediment (Freshwater); 0.16 mg/kgSediment (Marinewater); 0.016 mg/kg

ISOBUTYL METHYL KETONE (CAS: 108-10-1)

Biological limit values 20 umol 4-me

20 umol 4-methylpentan-2-one/L in urine, 20 umol 4-methylpentan-2-one/L in urine, 20 umol 4-methylpentan-2-one/L in urine

8.2. Exposure controls

Protective equipment











Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

If these are not sufficient to maintain concentrations of solvent vapour below the OEL, suitable respiratory protection must be worn. See Respiratory Equipment below.

Personal protection Requirements for personal protection can only be determined by performing a risk

assessment on a case-by-case basis prior to use. This risk assessment should be reviewed regularly.

regulari

of liquids.

Hand protection There is no one glove material or combination of materials that will give unlimited resistance

to any individual or combination of chemicals. For prolonged or repeated handling, use chemical resistant gloves classified under "Standard EN374: Protective gloves against

chemicals and micro-organisms" made from Viton or PVA barrier material. The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage,

maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance and effectiveness of the glove may be reduced by physical/chemical

damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

applied office exposure rias occurr

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

CELLULOSE THINNERS STANDARD

Hygiene measures

Provide eyewash station. Do not eat, drink or smoke when using this product. Promptly remove any clothing that becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

For processes where spraying is continuous or when spraying for extended periods (greater than 1 hour), compressed air breathing apparatus should always be worn by the spray operators even when good ventilation is provided. For other operators, whether spraying or not, working inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapours. In such circumstances, all operators should also wear compressed air breathing apparatus until such time as the particulates and solvent vapour concentration have fallen below the appropriate occupational exposure limits (see Section 8.1).

When spraying only occurs for short periods of time, less than 1 hour, workers must use, as a minimum, appropriate, certified, full face mask respirators fitted with a combination filter suitable for the removal of both particulates and solvent vapours.

For application by brush or roller, under good conditions of general or local ventilation. particulates are unlikely to be a problem. If solvent vapour concentrations are greater than the occupational exposure limits (see section 8.1), wear, as a minimum, a certified reusable half face mask respirator fitted with a filter suitable for the removal of solvent vapours.

If vigorous application by brush or roller is undertaken that generates airborne mist and particulates, then treat as for spray application.

Enclosed spaces with little or no ventilation: compressed air breathing apparatus should always be worn.

Respiratory protection should not be removed until the particulate and solvent vapour concentrations have fallen below the below the occupational exposure limits or the operator has entered a clean air area.

Compressed air breathing apparatus: e.g. a hood with a supply of compressed air from a clean source or a fan powered reusable full face mask respirator.

Respiratory protection should be selected so that it is suitable for the user, i.e. facial hair may interfere with the effectiveness of half mask or full face mask respirators

Environmental exposure

controls

Refer to the Environmental Protection Act and the Control of Pollution Act. Do not allow to enter drains or water courses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Thin liquid. Colour Clear.

Odour Characteristic. Odour threshold Not available.

pН Technically not feasible. The product is a non-aqueous mixture.

-85°C Melting point

55 - 181°C @ 760 mm Hg Initial boiling point and range

Flash point <23°C SCC (Setaflash closed cup).

CELLULOSE THINNERS STANDARD

Evaporation rate Not determined. (Product is a mixture)

Flammability (solid, gas) Material is not a solid or gas

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 0.8 % Upper flammable/explosive limit: 19 %

Vapour pressure0.2 - 10 kPa @ °CVapour densityHeavier than air.Relative density0.82 - 0.86 @ 20°C

Solubility(ies) Partially miscible with water.

Partition coefficient Not determined.

Auto-ignition temperature 365 - 525°C

Decomposition Temperature Not determined.

Viscosity Not determined.

Explosive properties The product itself is not explosive, but the formation of an explosible mixture of vapour or dust

with air is possible.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 820 - 860 g/l . This product contains a

maximum VOC content of 100 g/100 g.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage and handling conditions (see section 7).

When exposed to high temperatures may produce hazardous decomposition products.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to

avoid exothermic reactions

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. When exposed to high temperatures may

produce hazardous decomposition products.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to

avoid exothermic reactions

10.6. Hazardous decomposition products

Hazardous decomposition

such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

CELLULOSE THINNERS STANDARD

ATE oral (mg/kg) 6,329.11

Acute toxicity - dermal

ATE dermal (mg/kg) 6,938.6

Acute toxicity - inhalation

ATE inhalation (gases ppm) 420,560.75

ATE inhalation (vapours mg/l) 95.42

ATE inhalation (dusts/mists

mg/l)

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation

140.19

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisationBased on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Contains toluene - may cause harm to the unborn child Pregnant women should not be

exposed to this product.

Specific target organ toxicity - single exposure

STOT - single exposure Vapours may cause drowsiness and dizziness.

Target organs Central nervous system Liver Kidneys Narcotic effects

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure

Target organs Liver Kidneys

Aspiration hazard

Aspiration hazard Based on available data, the classification criteria are not met.

General information There are no data available on the mixture itself. The mixture has been assessed following

the method according to the "Classification, labelling and packaging of substances and mixtures" EC 1272/2008 and ensuing amendments and classified for toxicological hazards

accordingly. See sections 2 and 3 for details.

Inhalation Exposure to component solvent vapours concentration in excess of the stated occupational

exposure limit may result in adverse health effects such as mucous membrane and

respiratory system irritation and adverse effects on kidney, liver and central nervous system.

CELLULOSE THINNERS STANDARD

Ingestion Ingestion may cause nausea, diarrhoea and vomiting.

Skin contact Repeated or prolonged contact with the mixture may cause removal of natural fat from the

skin resulting in non-allergic contact dermatitis and absorption through the skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain. The liquid splashed in the eyes may cause irritation and reversible damage.

Medical symptoms Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness

and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin.

Medical considerations This takes into account, where known, delayed and immediate effects and also chronic effects

of components from short-term and long-term exposure by oral, inhalation and dermal routes

of exposure and eye contact.

Toxicological information on ingredients.

TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,680.0

Species Rat

Notes (oral LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,680.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

25.7

25.7

Species Rat

ATE inhalation (vapours

•

mg/l)

Skin corrosion/irritation

Animal data Erythema/eschar score: Well defined erythema (2)., Not fully reversible within

Oedema score: Very slight oedema -barely perceptible (1). Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation

Minimally irritating to the eye (rabbit) Fully reversible within: 7 days

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

CELLULOSE THINNERS STANDARD

Genotoxicity - in vitro Gene mutation:: Not mutagenic in AMES Test. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Carcinogenicity

NOAEL 4522 mg/m³, Inhalation, Rat No evidence of carcinogenicity in animal Carcinogenicity

studies.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEC 7500 mg/m³, Inhalation, Rat P

Reproductive toxicity -

development

Developmental toxicity: - NOAEC: 1875 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure Category 3, , Narcotic effects

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Category 2,,

Aspiration hazard

Aspiration hazard Aspiration hazard - Category 1 If swallowed accidentally, the product may enter the

lungs due to its low viscosity and lead to the rapid development of very serious

inhalation pulmonary lesions (medical survey during 48 hours)

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

4,394.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 20,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

22.5

(LC₅₀ vapours mg/l)

Species Rat

Notes (inhalation LC₅₀) LC0 value - no mortality in test. 6 hours exposure

ATE inhalation (vapours

mg/l)

22.5

Skin corrosion/irritation

Animal data Mildly to moderately irritating to skin. (rabbit)

Serious eye damage/irritation

CELLULOSE THINNERS STANDARD

Serious eye damage/irritation

Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroBacterial reverse mutation test: Negative. Based on available data the classification

criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL , , Mouse No evidence of carcinogenicity in animal studies.

Target organ for carcinogenicity

Respiratory system, lungs

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility:, Two-generation study - NOAEL 26400 mg/kg, Oral, Mouse

Reproductive toxicity -

development

Maternal toxicity: - NOAEL: 2200 mg/kg/day, Oral, Mouse No dose-related adverse effects on foetuses were observed at doses close to those causing acute maternal

toxicity.

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,800.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50

۵.

mg/kg)

15,800.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

76.0

Species Rat

ATE inhalation (vapours

mg/l)

76.0

Skin corrosion/irritation

Extreme pH Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

CELLULOSE THINNERS STANDARD

Serious eye May cause corneal damage. Irritating to eyes (rabbit)

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vivo : Tests on bacterial or mammalian cell culture did not show mutagenic effects

Carcinogenicity

Carcinogenicity Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Reproductive toxicity -

Animal testing did not show any effects on fertility

fertility

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD50

4,300.0

mg/kg)

Species Rat

4,300.0 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,200.0

mg/kg)

Species

Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

21.7

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours

11.0

mg/l)

Skin corrosion/irritation

Animal data Dose: 24 and, 72 hours, Rabbit Irritating to skin.

CELLULOSE THINNERS STANDARD

Serious eye damage/irritation

Serious eye

Causes serious eye irritation

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Not sensitising

Skin sensitisation

Skin sensitisation - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. Ames test: Negative. Gene mutation: Negative.

Genotoxicity - in vivo Dominant lethal assay, intraperitoneal: Negative.

Carcinogenicity

Carcinogenicity NOAEL 500 mg/kg, Oral, Rat, male/female Did not show carcinogenic effects in

animal experiments.

Reproductive toxicity

Reproductive toxicity -

fertility

One-generation study - NOAEL >=500 ppm, Inhalation, Rat, male/female P Two-generation study - NOAEL 500 ppm, Inhalation, Rat, male/female P Two-generation study - NOAEL >500 ppm, Inhalation, male/female F1 Two-generation study -

NOAEL >500 ppm, Inhalation, Rat, male/female F2 This substance has no

evidence of toxicity to reproduction.

Reproductive toxicity -

development

Maternal toxicity: - NOAEL: 500 ppm, Inhalation, Rat, female

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Target organs Central nervous system Liver Kidneys

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 150 mg/kg, (3 months), Oral, Rat NOAEL >3.5 mg/l, (3 months), Inhalation,

Rat, Dog

Target organs Kidneys Liver

Aspiration hazard

Aspiration hazard Aspiration hazard - Category 1 If swallowed accidentally, the product may enter the

lungs due to its low viscosity and lead to the rapid development of very serious

inhalation pulmonary lesions (medical survey during 48 hours)

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅o

4,700.0

mg/kg)

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 4,700.0

Acute toxicity - dermal

CELLULOSE THINNERS STANDARD

Notes (dermal LD50) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

10,000.0

Species Rat

Notes (inhalation LC₅₀) 6 hours exposure Based on available data the classification criteria are not met.

ATE inhalation (vapours

mg/l)

10,000.0

Skin corrosion/irritation

Animal data Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not

irritating. (rabbit)

Serious eye damage/irritation

Serious eye

Causes serious eye damage

damage/irritation

Skin sensitisation

Skin sensitisation Buehler test: - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. This substance has no evidence of

mutagenic properties.

Chromosome aberration - micronucleus assay: Negative. This substance has no Genotoxicity - in vivo

evidence of mutagenic properties.

Carcinogenicity

NOAEL 5000 ppm, Inhalation, Rat There is no evidence that the product can cause Carcinogenicity

cancer.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 500 mg/kg, Oral, Rat F2a This substance has no

evidence of toxicity to reproduction.

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 480 mg/kg, Oral, Rabbit This substance has no

evidence of toxicity to reproduction.

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

10.470.0

mg/kg)

Species Rat

ATE oral (mg/kg) 10,470.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅ 15,800.0

mg/kg)

Rabbit **Species**

CELLULOSE THINNERS STANDARD

ATE dermal (mg/kg) 15,800.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

116.9

Species Rat

ATE inhalation (vapours

116.9

mg/l)

Skin corrosion/irritation

Extreme pH No skin irritation Rabbit

Serious eye damage/irritation

Serious eye

Irritating to eyes (rabbit) Fully reversible within: 14 days

damage/irritation

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Gene mutation:: Negative. Based on available data the classification criteria are not

met.

Genotoxicity - in vivo Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL >3000 mg/kg, Oral, Rat Based on available data, classification criteria are

not met

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL > 20.7 g/kg/day, Oral, Mouse This substance has

no evidence of toxicity to reproduction.

Reproductive toxicity -

development

Teratogenicity: - NOAEL: >=20000 ppm, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure Not applicable.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

BUTANONE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

2,194.0

· ·

Species Rat

ATE oral (mg/kg) 2,194.0

CELLULOSE THINNERS STANDARD

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) Moderately irritating.

34.0

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

ATE inhalation (vapours

mg/l)

Skin corrosion/irritation

Animal data Dose: No skin irritation, 4 hours, Rabbit OECD Test Guideline 404

Serious eye damage/irritation

Serious eye

damage/irritation

Severely irritating (rabbit) OECD Test Guideline 405

Respiratory sensitisation

Respiratory sensitisation Guinea Pig. There is no evidence that the material can lead to respiratory

hypersensitivity.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - : Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro : Negative. Not mutagenic in AMES Test.

Carcinogenicity

Carcinogenicity Not expected to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - Not expected to impair fertility.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure Vapours may cause drowsiness and dizziness. Experience with human exposure

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Defatting, drying and cracking of skin.

Target organs Skin

Aspiration hazard

Aspiration hazard Classification criteria not met.

Medical symptoms Skin irritation. Irritation of eyes and mucous membranes. Gas or vapour in high

concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Coughing. Drowsiness,

dizziness, disorientation, vertigo. Fatigue. Nausea, vomiting. Dryness of mouth and

throat.

CELLULOSE THINNERS STANDARD

Medical considerations Skin disorders and allergies. Convulsions. Central nervous system depression.

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting

may cause chemical pneumonitis.

BUTYL ACETATE -norm

Acute toxicity - oral

Acute toxicity oral (LD₅o

10,760.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 14,112.0

mg/kg)

Rabbit **Species**

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 vapours mg/l)

23.4

Species Rat

ATE inhalation (vapours

mg/l)

23.4

Skin corrosion/irritation

Animal data OECD Test Guideline 404 No skin irritation (rabbit)

Serious eye damage/irritation

Serious eye damage/irritation

No eye irritation OECD 405 rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) -: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Genotoxicity - in vivo Chromosome aberration - micronucleus assay: Negative. Based on available data

the classification criteria are not met.

Carcinogenicity

Carcinogenicity Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility: - NOAEC 3615 mg/m3, Inhalation, Rat

Reproductive toxicity -

development

Developmental toxicity: - LOAEC: 7230 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

CELLULOSE THINNERS STANDARD

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 500 ppmV/6hr/day, Inhalation, Rat

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

HEXANE-norm

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

16.0

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ gases ppmV)

5.000.0

Rat **Species**

24 hours Based on available data the classification criteria are not met. Notes (inhalation LC₅₀)

ATE inhalation (gases

ppm)

5,000.0

Skin corrosion/irritation

Animal data Primary dermal irritation index: 1.92 Irritating to skin. (rabbit)

Serious eye damage/irritation

Serious eye damage/irritation No eye irritation OECD 405 rabbit

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: No evidence of a skin sensitizing

potential.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Based on available data the classification

criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Animal testing did not show any mutagenic effects Mouse

Based on available data the classification criteria are not met.

Carcinogenicity

NOAEL >9016 ppm, Inhalation, Rat Carcinogenicity

Reproductive toxicity

CELLULOSE THINNERS STANDARD

Reproductive toxicity -

fertility

Fertility: - NOAEL 5000 ppm, Inhalation, Rat Suspected of damaging fertility.

Reproductive toxicity -

development

Developmental toxicity: - LOAEC: 200 ppm, Inhalation, Mouse Suspected of

damaging the unborn child.

METHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

7,000.0

Species Monkey

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 17,100.0

mg/kg)

Rabbit **Species**

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

43.68

Species Monkey

Notes (inhalation LC₅₀) 6 hours exposure

ATE inhalation (vapours

mg/l)

43.68

Skin corrosion/irritation

Animal data No skin irritation (rabbit)

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation : Not determined.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) -: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Negative. This substance has no evidence of mutagenic properties.

Genotoxicity - in vivo Chromosome aberration: Negative. This substance has no evidence of mutagenic

properties.

Carcinogenicity

Carcinogenicity NOAEC >1.3 mg/l, Inhalation, Mouse

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility - NOAEL 1.33 mg/l, Oral, Rat P Based on available data, the classification

criteria are not met.

CELLULOSE THINNERS STANDARD

Reproductive toxicity -

development

Teratogenicity: - NOAEC: 6.65 mg/l, Inhalation, Vapour, Rat

Specific target organ toxicity - single exposure

STOT - single exposure , Oral, Human Causes damage to organs Experience with human exposure

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

Aspiration hazard

Aspiration hazard No aspiration hazard expected. Classification criteria not met.

PROPYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

8,700.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 17,800.0

mg/kg)

Rabbit **Species**

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

32.0

Species Rat

ATE inhalation (vapours

mg/l)

32.0

Skin corrosion/irritation

Animal data Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema

score: No oedema (0). Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating - may cause slight corneal injury

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Based on available data the classification

criteria are not met.

Genotoxicity - in vivo Not available.

Carcinogenicity

Carcinogenicity Not available.

Reproductive toxicity

CELLULOSE THINNERS STANDARD

Reproductive toxicity -

fertility

Two-generation study - NOAEC 2000 mg/kg, Oral, Rat P Based on available data,

the classification criteria are not met.

Reproductive toxicity development

Developmental toxicity: - NOAEC: 750 ppm, Inhalation, Rat Based on available

data, classification criteria are not met

SECTION 12: Ecological Information

Ecotoxicity There are no data available on the mixture itself. The mixture has been assessed following

> the method according to the "Classification, labelling and packaging of substances and mixtures" EC1272/2008 and ensuing amendments and is classified for ecotoxicological properties accordingly. See sections 2 and 3 for details. Do not allow to enter drains or water

courses.

12.1. Toxicity

Toxicity There is no toxicity data for the mixture itself.

Ecological information on ingredients.

TOLUENE

Acute toxicity - fish LC50, 96 hours: 5.5 mg/l, Oncorhynchus kisutch (Coho salmon)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 3.78 mg/l, Ceriodaphnia dubia

NOEC, : 1000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 3 hours: 134 mg/l, Chlamydomonas angulosa

Acute toxicity -

microorganisms

EC₅₀, 24 hours: 84 mg/l, Activated sludge

Chronic toxicity - fish early NOEC, 40 days: 1.4 mg/l,

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, 7 days: 0.74 mg/l, Daphnia magna

ETHYL ACETATE

Acute toxicity - fish LC₅₀, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 3090 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOEC, 72 hours: >100 mg/l, Scenedesmus subspicatus

EC₅o, 15 minutes: 1500 mg/l, Pseudomonas fluorescens

Acute toxicity microorganisms

ACETONE

Acute toxicity - fish LC₅₀, 96 hours: 6120 mg/l, Pimephales promelas (Fat-head Minnow)

LC₅₀, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 8800 mg/l mg/l, Daphnia magna

CELLULOSE THINNERS STANDARD

Acute toxicity - aquatic

plants

NOEC, 96 hours: 430 mg/l mg/l, Algae

Acute toxicity -

microorganisms

EC12, 30 min: 1000 mg/l, Activated sludge

Chronic toxicity - aquatic

invertebrates

NOEC, 28 days: 2212 mg/l, Daphnia magna

XYLENE

Acute toxicity - fish LC₅₀, 96 hours: 2.6 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 3.82 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅o, 72 hours: 2.2 mg/l, Freshwater algae

Acute toxicity - microorganisms

EC₅₀, 24 hours: 96 mg/l, Bacteria

PROPAN-2-OL

Acute toxicity - fish LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 2285 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 7 days: 1800 mg/l, Scenedesmus subspicatus

Acute toxicity -

microorganisms

Toxicity threshold, 16 hours: 1050 mg/l, Pseudomonas putida

ETHANOL

Acute toxicity - fish LC₅₀, 96 hours: 15300 mg/l, Pimephales promelas (Fat-head Minnow)

LC₅o, 24 hours: 11200 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC50, 48 hours: > 10000 mg/l, Daphnia magna

EC₅o, 24 hours: 858 mg/l, Artemia salina

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 275 mg/l, Chlorella vulgaris EC10, 72 hours: 11.5 mg/l, Chlorella vulgaris

Acute toxicity - EC₅₀, 24 hours: 5800 mg/l, Paramaecium caudatum microorganisms EC₅₀, 16 hours: 6500 mg/l, Pseudomonas putida

Acute toxicity - terrestrial LC₅₀, 48 hours: >1 mg/cm2 , Eisenia Fetida (Earthworm)

BUTANONE

Acute toxicity - fish LC₅₀, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)

LC₅₀, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)

OECD Guideline for Testing of Chemicals, No.203

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 308 mg/l, Daphnia magna

OECD Test Guideline 202

CELLULOSE THINNERS STANDARD

Acute toxicity - aquatic

plants

EC₅₀, 96 hours: 2029 mg/l, Scenedesmus subspicatus

OECD Test Guideline 201

Acute toxicity -

microorganisms

ECo, 16 hours: 1150 mg/l, Pseudomonas putida

Acute toxicity - terrestrial Not known.

BUTYL ACETATE -norm

Acute toxicity - fish LC₅₀, 96 hours: 18 mg/l, Pimephales promelas (Fat-head Minnow)

OECD Guideline for Testing of Chemicals, No.203

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 44 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 647.7 mg/l, Scenedesmus subspicatus NOEC, 72 hours: 200 mg/l, Scenedesmus subspicatus

CYCLOHEXANE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic) 1

HEXANE-norm

Acute toxicity - fish LC₅₀, 48 hours: > 1 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 3.51 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOEC, 72 hours: 3.014 mg/l, Selenastrum capricornutum

Read across data

Acute toxicity - microorganisms

EC₅o, 48 hours: 48.39 mg/l, Tetrahymena pyriformis

METHANOL

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: 22000 mg/l, Freshwater algae

Acute toxicity - ICs

microorganisms

IC₅o, 3 hours: >1000 mg/l, Activated sludge

Acute toxicity - terrestrial LC₅₀, 48 hours: >0.1 - <1 mg/cm², Eisenia Fetida (Earthworm)

CELLULOSE THINNERS STANDARD

PROPYL ACETATE

Acute toxicity - fish LC₅₀, 96 hours: 60 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 91.5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 672 mg/l, Selenastrum capricornutum NOEC, 72 hours: 83.2 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms

EC₅₀, 16 hours: >1000 mg/l, Activated sludge

HEPTANE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Chronic aquatic toxicity

NOEC $0.01 < NOEC \le 0.1$

Degradability Non-rapidly degradable

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability There is no data for the mixture itself.

Ecological information on ingredients.

TOLUENE

Persistence and

degradability

The product is readily biodegradable

Biodegradation Degradation (%)

- 69: 5 days

- Degradation (%) 81: 5 days

ETHYL ACETATE

Persistence and

degradability

The product is readily biodegradable.

Stability (hydrolysis) pH5 - Half-life: 16 years @ 24.9°C

pH7 - Half-life : 24 months @ 24.9°C pH9 - Half-life : 7.5 days @ 24.9°C

The substance is effectively stable to degradation by hydrolysis .under any

environmental conditions likely to be experienced.

Biodegradation Water - Degradation (%) 62%: 5 days

Water - Degradation (%) 99%: 6 days The substance is readily biodegradable.

Biological oxygen demand COD5 = 1.69 g O₂/g substance

ACETONE

CELLULOSE THINNERS STANDARD

Persistence and

degradability

The product is readily biodegradable.

Biodegradation

Water - Degradation (%) 91: 28 days

OECD Test Guideline 301B - Degradation (%) 84: 20 days

Readily biodegradeable

Biological oxygen demand 1900 mg/g (Incubation time - 5 days)

Chemical oxygen demand 2100 mg/g

Persistence and

degradability

Readily biodegradable

Biodegradation - Degradation % >60: 28 days

Readily biodegradable

PROPAN-2-OL

XYLENE

Persistence and

degradability

The product is readily biodegradable.

Biodegradation Water - Degradation (%) 53%: 5 days

The substance is readily biodegradable.

Chemical oxygen demand 2.23 g O₂/g substance

ETHANOL

Biodegradation - Degradation (%) 70%: 5 days

Readily biodegradable

Biological oxygen demand 0.100 g O₂/g substance

Chemical oxygen demand 1.9 g O₂/g substance

BUTANONE

Persistence and

degradability

The product is biodegradable.

Biodegradation - Degradation (%) 98%: 28 days

The substance is readily biodegradable.

BUTYL ACETATE -norm

Persistence and

degradability

Readily biodegradable

Biodegradation Water - Degradation (%) 83: 28 days

HEXANE-norm

Persistence and degradability

Readily biodegradable

CELLULOSE THINNERS STANDARD

Biodegradation - Degradation (%) 83%: 10 days

The substance is readily biodegradable.

METHANOL

Biodegradation Water - Degradation (%) 71.5: 3 days

Water - Degradation (%) 46.3: 5 days Water - Degradation (%) 95: 20 days

PROPYL ACETATE

Persistence and

degradability

The product is readily biodegradable

Phototransformation Water - DT₅₀: 5 days

Biodegradation - Degradation (%) 62%: 5 days

12.3. Bioaccumulative potential

Bioaccumulative potential There is no data for the mixture itself.

Partition coefficient Not determined.

Ecological information on ingredients.

TOLUENE

Bioaccumulative potential Potential for bioaccumulation is low. BCF: 90,

Partition coefficient log Pow: 2.65

ETHYL ACETATE

Bioaccumulative potential No data available on bioaccumulation. BCF: 30,

Partition coefficient : 0.68

ACETONE

Bioaccumulative potential The product is not bioaccumulating. BCF: 3,

Partition coefficient log Kow: -0.24

XYLENE

Bioaccumulative potential Not expected to bioaccumulate. BCF: 25.9,

Partition coefficient log Pow: 3.15

PROPAN-2-OL

Bioaccumulative potential The product is not bioaccumulating.

ETHANOL

Bioaccumulative potential Not expected to bioaccumulate.

BUTANONE

CELLULOSE THINNERS STANDARD

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 0.3 @ 40°C

BUTYL ACETATE -norm

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Kow: 2.3 OECD Test Guideline 117

HEXANE-norm

Bioaccumulative potential BCF: 501, Pimephales promelas (Fat-head Minnow)

METHANOL

Bioaccumulative potential BCF: < 10,

Partition coefficient log Pow: < 1 Low potential bioaccumulation

12.4. Mobility in soil

Mobility There is no data on the mobility of the mixture itself.

Ecological information on ingredients.

ETHYL ACETATE

Mobility The product is soluble in water.

Surface tension 24 mN/m @ 20°C

ACETONE

Mobility The product is soluble in water. The product contains volatile organic compounds

(VOCs) which will evaporate easily from all surfaces.

Adsorption/desorption

coefficient

Water -: 1.5 @ 20°C

Henry's law constant 3311 Pa m3/mol @ 25°C

XYLENE

Mobility The product contains volatile solvents which are immiscible with water and will

evaporate into the atmosphere. In soil the product has only slight mobility and will

partially evaporate

PROPAN-2-OL

Mobility The product is soluble in water.

ETHANOL

Mobility Not expected to absorb on soil.

Henry's law constant 0.461 Pa m3/mol @ °C Read across data

BUTANONE

CELLULOSE THINNERS STANDARD

Mobility Expected to remain in water. Expected to migrate through soil. The product is

soluble in water.

Surface tension 25 mN/m @ 20°C

BUTYL ACETATE -norm

Surface tension 61.3 mN/m @ 20°C OECD Test Guideline 115

HEXANE-norm

Adsorption/desorption

coefficient

- log Koc: 3.34 @ °C

METHANOL

Mobility The product is soluble in water.

PROPYL ACETATE

Adsorption/desorption

coefficient

- log Koc: 1.053 @ °C Estimated value.

Henry's law constant 22.08994 Pa m3/mol @ @ 25°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not allow to enter drains or water courses.

Disposal methods Waste and emptied containers are controlled wastes and should be disposed of in

accordance with The Environment Protection (Duty of Care) Regulations" (in England, Scotland, Wales) or The Controlled Waste (Duty of Care) Regulations (in Northern Ireland).

Waste class The European List of Wastes classification of this product, when disposed of as waste is:

Waste Code: Name of Waste (according to Decision 2000/532/EC):

08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of empty containers contaminated by the product in accordance with local or national legal provisions.

SECTION 14: Transport information

General This section contains basic classification information; specific information is not provided for

all transport modes if not relevant for the product as supplied. Relevant modal regulations

should be consulted if the product is transported onwards.

CELLULOSE THINNERS STANDARD

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL (Cyclohexane and heptane)

14.3. Transport hazard class(es)

3

ADR/RID label 3

Transport labels



14.4. Packing group

PG II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

EmS F-E, S-E

Tunnel restriction code (D/E)

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

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The information in this Safety Data Sheet is required pursuant to the provisions of the Health

and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations

which apply to the use of this product at work.

Control of Pollution Act 1974.

The Environmental Protection (Duty of Care) Regulations 1992 and amendments

The Waste (England and Wales) Regulations 2011 (SI 2011 No. 988)

The Dangerous Substances & Explosive Atmospheres Regulations 2002(SI 2002:2776).

The Manual Handling Operations Regulations 1992, (SI 1992:2793) and amendment, The

Stationery Office.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

CELLULOSE THINNERS STANDARD

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Waste Framework Directive (Directive 2008/98/EC on waste) and amendments

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and

Directive 91/689/EEC on hazardous waste with amendments.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

This product may add to the calculation for determining whether a site is within scope of the

Seveso Directive on major accident hazards.

Guidance COSHH Essentials: easy steps to control chemicals, on-line guidance at

http://www.hse.gov.uk/coshh/essentials/index.htm

Chemical Warehousing: Storage of Flammable Liquids in Containers, HSG51, HSE

Storage: Packaged Dangerous Substances HSG71, HSE.

Working with solvents: A guide to safe working practices, INDG273(rev1), HSE

Best Practice Guideline 5 "Safe Use of Gloves (June 2010) published by the European Solvents Industry Group (ESIG) available at www.esig.org/en/library/publications/best-

practice-guides

Control of Substances Hazardous to Health (Fifth Edition) (HSE Books L5)

Dangerous Substances and Explosive Atmospheres Regulations 2002, (HSE Books L138)

Safe use and handling of flammable liquids HSG140 (Second edition), HSE

A step by step guide to COSHH assessment HSG97, HSE

Respiratory protective equipment at work: A practical guide, HSG53, HSE

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures

for the assessment of exposure to chemical and biological agents

Restrictions (Title VIII Regulation 1907/2006)

Entry 48 in Table XVII restricting the placing on the market of substances and mixtures

containing >0.1% toluene for supply to the general public.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ATE: Acute Toxicity Estimate.
BCF: Bioconcentration Factor.
CAS: Chemical Abstracts Service.

CLP: Classification, Labelling, Packaging Regulation; Regulation (EC) No. 1272/2008

CMR: Carcinogen, Mutagen or Reproductive Toxicant

COSHH: Control of Substances Hazardous to Health Regulations

DNEL: Derived No Effect Level. EC: European Community

ECHA: European Chemicals Agency

EC No.: EINECS (European Inventory of Existing Commercial Substances) and ELINCS

(European List of Notified Substances) Number EC₅: 50% of maximal Effective Concentration.

EmS: Emergency Schedule (IMDG)

EU: European Union

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.
LOEC: Lowest Observed Effect Concentration.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STOT: Specific Target Organ Toxicity (STOT) RE: Repeated Exposure (STOT) SE: Single Exposure STP: Sewage Treatment Plant

SVHC: Substances of Very High Concern.

UN: United Nations.

VOC: Volatile Organic Compound

vPvB: Very Persistent and Very Bioaccumulative.

General information

The product should not be used for purposes other than those shown in Section 1.

Key literature references and sources for data

Raw material supplier's Safety Data Sheets. Reference to ECHA Registered Substance dossiers

Classification procedures according to Regulation (EC) 1272/2008

Unless indicated elsewhere in this safety data sheet, the classification of this mixture has been determined using a combination of test data, bridging principles and calculation.

Revision comments CLP 1.01 CHIP classification data removed Amended to meet recommendations described in

CEPE Phrase Catalogue version 10. This issue replaces Issue CLP 1.00

CLP 1.00 This revision is the first to meet the requirements of the "Classification, labelling and packaging of substances and mixtures (CLP) Regulation" EC 1272/2008 and ensuing adaptations to August 2013 Whilst the product itself has not changed, this issue takes into account its reclassification as a consequence of the CLP regulations (see Section 2). Additional information added to Sections 8.1, 8.2, 9.1, 11 and 12. This issue replaces issue

8.00

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by Chief Chemist

 Revision date
 12/05/2016

 Revision
 CLP 1.01

Supersedes date 14/05/2015

SDS number 10408

Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin. H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

H370 Causes damage to organs.

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.

The information of this SDS is based on the present state of our knowledge and on current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not to be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.