



SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 1

Compilation date: 08/07/2015

Revision date: 01/11/2017

Revision No: 2

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

1.1. Product identifier

Product name: CARBOSOLV PREMIUM CELLULOSE THINNERS

Product code: S094, S095, S096, S097, S098

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

Use of substance / mixture: Consumer Use. Industrial Use. Professional Use.

1.3. Details of the supplier of the safety data sheet

Company name: Palatine Paints & Chemicals Limited

55 Smallbrook Lane

Leigh

Greater Manchester

WN7 5PZ

United Kingdom

Tel: +44 (0)1942 884122

Email: sales@palatinepaints.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 1942 884122 (Office hours only 8am - 5pm Mon-Fri.)

+44 (0) 1942 936181 (Out of hours emergency number)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 2: H225; Acute Tox. 4: H312+332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; STOT SE 3: H336; STOT RE 2: H373; -: EUH066

Most important adverse effects: Repeated exposure may cause skin dryness or cracking. Highly flammable liquid and vapour. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Label elements:

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 2

Hazard statements: EUH066: Repeated exposure may cause skin dryness or cracking.
H225: Highly flammable liquid and vapour.
H312+332: Harmful in contact with skin or if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.

Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark
GHS08: Health hazard



Signal words: Danger

Precautionary statements: * P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233: Keep container tightly closed.
P260: Do not breathe fumes/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container to hazardous or special waste collection point.
P403+235: Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 3

XYLENE - REACH registered number(s): 01-2119488216-32-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-535-7	1330-20-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	30-50%

ACETONE - REACH registered number(s): 01-2119471330-49-XXXX

200-662-2	67-64-1	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%
-----------	---------	---	---	--------

N-BUTYL ACETATE - REACH registered number(s): 01-2119485493-29-XXXX

204-658-1	123-86-4	-	Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066	10-30%
-----------	----------	---	---	--------

ETHANOL - REACH registered number(s): 01-2119457610-43-XXXX

200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	1-10%
-----------	---------	---	--------------------	-------

2-METHOXY-1-METHYLETHYL ACETATE - REACH registered number(s): 01-2119475791-29-XXXX

203-603-9	108-65-6	Substance with a Community workplace exposure limit.	Flam. Liq. 3: H226	1-10%
-----------	----------	---	--------------------	-------

4-HYDROXY-4-METHYLPENTAN-2-ONE - REACH registered number(s): 01-2119473975-21-XXXX

204-626-7	123-42-2	-	Eye Irrit. 2: H319	1-10%
-----------	----------	---	--------------------	-------

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers. Do not use water jet

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 4

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 5

Hazardous ingredients:

XYLENE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	220 mg/m ³	441 mg/m ³	-	-

ACETONE

UK	1210 mg/m ³	3620 mg/m ³	-	-
----	------------------------	------------------------	---	---

N-BUTYL ACETATE

UK	724 mg/m ³	966 mg/m ³	-	-
----	-----------------------	-----------------------	---	---

ETHANOL

UK	1920 mg/m ³	-	-	-
----	------------------------	---	---	---

2-METHOXY-1-METHYLETHYL ACETATE

UK	274 mg/m ³	548 mg/m ³	-	-
----	-----------------------	-----------------------	---	---

4-HYDROXY-4-METHYLPENTAN-2-ONE

UK	241 mg/m ³	362 mg/m ³	-	-
----	-----------------------	-----------------------	---	---

DNEL/PNEC Values

Hazardous ingredients:

XYLENE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	289 mg/m ³	Workers	Systemic
DNEL	Inhalation	289 mg/m ³	Workers	Local
DNEL	Dermal (repeated dose)	180 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	77 mg/m ³	Workers	Systemic
DNEL	Inhalation (repeated dose)	77 mg/m ³	Workers	Local
DNEL	Inhalation	174 mg/m ³	General Population	Systemic
DNEL	Inhalation	174 mg/m ³	General Population	Local
DNEL	Oral (repeated dose)	1.6 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation (repeated dose)	14.8 mg/m ³	General Population	Systemic
DNEL	Dermal (repeated dose)	108 mg/kg bw/day	General Population	Systemic
PNEC	Fresh water	0.327 mg/l	-	-
PNEC	Fresh water sediments	12.46 mg/kg	-	-
PNEC	Soil (agricultural)	2.31 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	6.58 mg/l	-	-

ACETONE

Type	Exposure	Value	Population	Effect
------	----------	-------	------------	--------

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 6

PNEC	Fresh water	10.6 mg/l	-	-
PNEC	Fresh water sediments	30.4 mg/kg	-	-
PNEC	Marine water	1.06 mg/l	-	-
PNEC	Marine sediments	3.04 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	100 mg/l	-	-
PNEC	Soil (agricultural)	29.5 mg/kg	-	-

N-BUTYL ACETATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	48 mg/m ³	Workers	Systemic
DNEL	Inhalation	600 mg/m ³	Workers	Systemic
DNEL	Inhalation (repeated dose)	12 mg/m ³	General Population	Systemic
DNEL	Inhalation	300 mg/m ³	General Population	Systemic
DNEL	Inhalation (repeated dose)	300 mg/m ³	Workers	Local
DNEL	Inhalation	600 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	35.7 mg/m ³	General Population	Local
DNEL	Inhalation	300 mg/m ³	General Population	Local
DNEL	Dermal (repeated dose)	7 mg/kg bw/day	Workers	Systemic
DNEL	Dermal	11 mg/kg bw/day	Workers	Systemic
DNEL	Dermal (repeated dose)	3.4 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	6 mg/kg bw/day	General Population	Systemic
DNEL	Oral (repeated dose)	2 mg/kg bw/day	General Population	Systemic
DNEL	Oral	2 mg/kg bw/day	General Population	Systemic
PNEC	Fresh water	180 µg/l	-	-
PNEC	Fresh water sediments	981 µg/kg	-	-
PNEC	Marine water	18 µg/l	-	-
PNEC	Marine sediments	98.1 µg/kg	-	-
PNEC	Microorganisms in sewage treatment	35.6 mg/l	-	-
PNEC	Soil (agricultural)	90.3 µg/kg	-	-

ETHANOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1900 mg/m ³	Workers	Local
DNEL	Dermal (repeated dose)	343 mg/kg/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	95 mg/m ³	Workers	Systemic
DNEL	Inhalation	950 mg/m ³	Consumers	Local
DNEL	Dermal (repeated dose)	206 mg/kg/day	Consumers	Systemic
DNEL	Inhalation (repeated dose)	114 mg/m ³	Consumers	Systemic
DNEL	Oral (repeated dose)	87 mg/kg/day	Consumers	Systemic
PNEC	Fresh water	0.96 mg/l	-	-

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 7

PNEC	Marine water	0.79 mg/l	-	-
PNEC	Sediment	3.6 mg/kg	-	-
PNEC	Soil (agricultural)	0.63 mg/kg	-	-

2-METHOXY-1-METHYLETHYL ACETATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal (repeated dose)	153.5 mg/kg/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	275 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	54.8 mg/kg/day	Consumers	Systemic
DNEL	Inhalation (repeated dose)	33 mg/m ³	Consumers	Systemic
DNEL	Oral (repeated dose)	1.67 mg/kg/day	Consumers	Systemic
PNEC	Fresh water	0.635 mg/l	-	-
PNEC	Marine water	0.0635 mg/l	-	-
PNEC	Microorganisms in sewage treatment	100 mg/l	-	-
PNEC	Fresh water sediments	3.29 mg/kg	-	-
PNEC	Marine sediments	0.329 mg/kg	-	-
PNEC	Soil (agricultural)	0.29 mg/kg	-	-

4-HYDROXY-4-METHYLPENTAN-2-ONE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	240 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	66.4 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	66.4 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	9.4 mg/kg/day	Workers	Systemic
DNEL	Inhalation	120 mg/m ³	Consumers	Local
DNEL	Inhalation (repeated dose)	11.8 mg/m ³	Consumers	Local
DNEL	Inhalation (repeated dose)	11.8 mg/m ³	Consumers	Systemic
DNEL	Dermal (repeated dose)	3.4 mg/kg/day	Consumers	Systemic
DNEL	Oral (repeated dose)	3.4 mg/kg/day	Consumers	Systemic
PNEC	Fresh water	2 mg/l	-	-
PNEC	Marine water	0.2 mg/l	-	-
PNEC	Microorganisms in sewage treatment	82 mg/l	-	-
PNEC	Fresh water sediments	9.06 mg/kg	-	-
PNEC	Marine sediments	0.91 mg/kg	-	-
PNEC	Soil (agricultural)	0.63 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 8

Environmental: The floor of the storage room must be impermeable to prevent the escape of liquids. Ensure all engineering measures mentioned in section 7 of SDS are in place. Storage should be placed inside a fully bunded area of sufficient size to contain the volume plus 10%.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Slightly soluble

Viscosity: No data available.

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: -3

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: 0.843-0.853

pH: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Extremely high or low temperatures. Flames.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 9

11.1. Information on toxicological effects

Hazardous ingredients:

XYLENE

ORL	MUS	LD50	2119	mg/kg
ORL	RAT	LD50	4300	mg/kg
SCU	RAT	LD50	1700	mg/kg

ACETONE

IVN	RAT	LD50	5500	mg/kg
ORL	MUS	LD50	3000	mg/kg
ORL	RAT	LD50	5800	mg/kg

N-BUTYL ACETATE

ORL	MUS	LD50	6	gm/kg
ORL	RAT	LD50	10768	mg/kg

ETHANOL

IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	mg/kg

2-METHOXY-1-METHYLETHYL ACETATE

IPR	MUS	LD50	750	mg/kg
ORL	RAT	LD50	8532	mg/kg

4-HYDROXY-4-METHYLPENTAN-2-ONE

DERMAL	RBT	LD50	13750	mg/kg
IVN	RAT	LDLO	3024	mg/kg
ORL	MUS	LD50	3950	mg/kg
ORL	RAT	LD50	2520	mg/kg
VAPOURS	RAT	4H LC50	7.6	mg/l

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 10

STOT-repeated exposure	-	Hazardous: calculated
------------------------	---	-----------------------

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

XYLENE

ALGAE	72H IC50	2.2	mg/l
DAPHNIA	48H EC50	1	mg/l
FISH	96H LC50	2.6	mg/l

ACETONE

BLUEGILL (<i>Lepomis macrochirus</i>)	LC50	8300	mg/l
---	------	------	------

N-BUTYL ACETATE

ALGAE	48H EC50	392	mg/l
DAPHNIA	48H EC50	32	mg/l
FISH	96H LC50	18	mg/l

ETHANOL

Salmo Gairdneri	96H LC50	13000	mg/l
-----------------	----------	-------	------

2-METHOXY-1-METHYLETHYL ACETATE

Daphnia magna	48H EC50	> 408	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	<180	mg/l

4-HYDROXY-4-METHYLPENTAN-2-ONE

Daphnia magna	21D EC50	100	mg/l
Daphnia magna	48H EC50	>1000	mg/l
FISH	96H LC50	>100	mg/l

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 11

GREEN ALGA (<i>Selenastrum capricornutum</i>)	72H EC50	>1000	mg/l
---	----------	-------	------

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Dispose of in accordance with Local Authority requirements.

Waste code number: 20 01 13

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1993

14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, N.O.S.
(XYLENE; ACETONE; N-BUTYL ACETATE; ETHANOL)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

[cont...]

SAFETY DATA SHEET

CELLULOSE THINNERS

Page: 12

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H312: Harmful in contact with skin.

H312+332: Harmful in contact with skin or if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.