SAFETY DATA SHEET

STANDARD THINNERS

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product name: STANDARD THINNERS

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

Use of substance / mixture: Use in cleaning agents.

1.3. Details of the supplier of the safety data sheet

Company name: Pure Clean Waste Solutions Ltd
Old Moor Road,
Bredbury,
Stockport,
SK6 2QE
Tel: 0161 430 5390
Fax: 0161 406 9723
Email: support@pcws.co.uk
Emergency Tel: 0161 430 5390

1.4. Emergency telephone number

Emergency Tel: 0161 430 5390 (Office hours only)

2 HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; STOT RE 2: H373; Aquatic Chronic 2: H411; Flam. Liq. 2: H225; Repr. 2: H361f; Skin Irrit. 2: H315; STOT SE 3: H336

Most important adverse effects: Highly flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label element

Label elements:

Hazard statement:
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms:
GHS02: Flame
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental

Precautionary statements:
P210: Keep away from heat, hot surfaces, Sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340: IF INHALED: Remove Person to fresh air and keep comfortable for breathing.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P273: Avoid release to the environment.

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2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.
PBT: This substance is not identified as a PBT/vPvB substance.

3 Composition/information on ingredients

3.2. Mixtures

Hazard Ingredients:

TOLUENE - REACH registered number(s): 01-2119471310-51

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-625-9	108-88-3	-	Flam. Liq. 2: H225; Repr. 2: H361d; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336	10-30%
ETHYL ACETATE - REACH registered number(s): 01-2119475103-46				
205-500-4	141-78-6	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%
XYLENE - REACH registered number(s): 01-2119488216-32				
215-535-7	1330-20-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	1-10%
N-HEXANE – REACH registered number(s): 01-2119474209-33				
203-777-6	110-54-3	-	Flam. Liq. 2: H225; Repr. 2: H361f; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411	1-10%
ETHANOL - REACH registered number(s): 01-2119475610-43				
200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	1-10%
ETHYL METHYL KETONE				
201-159-0	78-93-3	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
ACETONE - REACH registered number(s): 01-2119471330-49				
200-662-2	67-64-1	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
N-BUTYL ACETATE - REACH registered number(s): 01-2119485493-29				
204-658-1	123-86-4	Substance with a Community workplace exposure limit.	Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066	1-10%
LOW BOILING POINT NAPHTHA - UNSPECIFIED - NAPHTHA (PETROLEUM), HYDRODESULPHURIZED LIGHT, DEAROMATIZE				
295-434-2	92045-53-9	-	Asp. Tox. 1: H304; Flam. Liq. 1: H224; Skin Irrit. 2: H315; Aquatic Chronic 2: H411	1-10%
PROPAN-2-OL				
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	1-10%
ISOPROPYL ACETATE – REACH registered number(s): 01-2119537214-46				
203-561-1	108-21-4	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%

3.2. Mixtures continued

Hazard Ingredients:

METHYL ACETATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
201-185-2	79-20-9	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
METHANOL - REACH registered number(s): 01-2119433307-44				
200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	1-10%
ISOBUTANOL - REACH registered number(s): 01-2119484609-23				
201-148-0	78-83-1	-	Flam. Liq. 3: H226; Acute Tox. 4: H302; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H336	1-10%
4-METHYLPENTAN-2-ONE				
203-550-1	108-10-1	-	Flam. Liq. 2: H225; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; -: EUH066	1-10%
PROPYL ACETATE				
203-686-1	109-60-4	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
BUTAN-1-OL				
200-751-6	71-36-3	-	Flam. Liq. 3: H226; Acute Tox. 4: H302; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H336	<1%
PROPAN-1-OL				
200-746-9	71-23-8	-	Flam. Liq. 2: H225; Eye Dam. 1: H318; STOT SE 3: H336	<1%

4 First Aid Measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues

Ingestion: Wash out mouth with water. If patient is conscious, give water to drink. If patient feels unwell, seek medical advice. DO NOT INDUCE VOMITING.

Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical advice.

4.2. Most important symptoms and effect, 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. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

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

Immediate / special treatment: Not applicable.

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5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

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.

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.

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 incompatabilities

Storage conditions: Store in 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.

Suitable packaging: Original container stored in a dry and cool place.

7.3. Specific use(s)

Specific end use(s): No data available.

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8 Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

TOLUENE

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	191 mg/m3	384 mg/m3	-	-
ETHYL ACETATE				
UK	200 ppm	400 ppm	-	-
XYLENE				
UK	220 mg/m3	441 mg/m3	-	-
N-HEXANE				
UK	72 mg/m3	No List	-	-
ETHANOL				
UK	1920 mg/m3	-	-	-
ETHYL METHYL KETONE				
UK	600 mg/m3	899 mg/m3	-	-
ACETONE				
UK	1210 mg/m3	3620 mg/m3	-	-
N-BUTYL ACETATE				
UK	724	966	-	-
ROPAN-2-OL				
UK	999 mg/m3	1250 mg/m3	-	-
ISOPROPYL ACETATE				
UK	no std	849 mg/m3	-	-
METHYL ACETATE				
UK	616 mg/m3	770 mg/m3	-	-
METHANOL				
UK	266 mg/m3	333 mg/m3	-	-
ISOBUTANOL				
UK	154 mg/m3	231 mg/m3	-	-
4-METHYLPENTAN-2-ONE				
UK	208 mg/m3	416 mg/m3	-	-
PROPYL ACETATE				
UK	849 mg/m3	1060 mg/m3	-	-
BUTAN-1-OL				
UK	-	154 mg/m3	-	-
PROPAN-1-OL				
UK	500 mg/m3	625 mg/m3	-	-

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DNEL/PNEC Values

Hazardous ingredients:

XYLENE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	442 mg/m3	Workers	Local
DNEL	Inhalation	180 mg/kg/day	Workers	Systemic
DNEL	Dermal	3182 mg/kg/day	Workers	Systemic
PNEC	Fresh water	0.327 mg/l	-	-
PNEC	Fresh water sediments	12.46 mg/kg	-	-
PNEC	Marine sediments	12.46 mg/kg	-	-
PNEC	Soil (argricultural)	2.31 mg/kg	-	-

ACETONE

Type	Exposure	Value	Population	Effect
DNEL	Oral	62 mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	186 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	2420 mg/m3	Workers	Local
DNEL	Inhalation	200 mg/m3	Consumers	Systemic
PNEC	Fresh Water	10.6 mg/l	-	-
PNEC	Fresh water sediments	30.4 mg/kg	-	-
PNEC	Marine sediments	3.04 mg/kg	-	-
PNEC	Marine water	1.06mg/l	-	-
PNEC	Soil (agricultural)	29.5 mg/kg	-	-

METHANOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	40 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	260 mg/m3	Workers	Systemic
DNEL	Dermal	40 mg/kg bw/day	Workers	Local
DNEL	Inhalation	260 mg/m3	Workers	Local
PNEC	Dermal	8 mg/kg bw/day	Consumers	Systemic
PNEC	Inhalation	50 mg/kg	Consumers	Systemic
PNEC	Oral	8 mg/kg/day	Consumers	Local

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: Impermeable gloves, change regularly to avoid permeation problems. Ensure gloves are manufactured/tested in accordance with BS EN 374.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

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9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid		
Colour:	Off-white		
Odour:	Perceptible odour		
Evaporation rate:	Moderate		
Oxidising:	Non-oxidising (by EC criteria)		
Solubility in water:	Slightly soluble		
Also soluble in:	Most organic solvents.		
Viscosity:	No data available.		
Boiling point/range°C:	55-155	**Melting point/range°C:**	No data available.
Flammability limits %: lower:	1.1	**Upper:**	12.8
Flash point°C:	<21	**Part.coeff. n-octanol/water:**	No data available.
Autoflammability°C:	>203	**Vapour pressure:**	No data available.
Relative density:	0.831-0.881	**pH:**	7.71
VOC g/l:	No data available.		

9.2. Other information

Other information: Not applicable.

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 reaction

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

11 Toxicological products

11.1. Information on toxicological effects

Hazardous ingredients:
TOLUENE

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg
VAPOURS	RAT	4H LC50	>20	mg/l
ETHYL ACETATE				
ORL	MUS	LD50	4100	mg/kg
ORL	RAT	LD50	5620	mg/kg
SCU	RAT	LDLO	5	gm/kg

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11.1. Information on toxicological effects continued

Hazardous ingredients:

XYLENE				
ORL	MUS	LD50	2119	mg/kg
ORL	RAT	LD50	4300	mg/kg
SCU	RAT	LD50	1700	mg/kg
N-HEXANE				
IPR	RAT	LDLO	9100	mg/kg
IVN	MUS	LDLO	831	mg/kg
ORL	RAT	LD50	25	gm/kg
ETHANOL				
IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	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
PROPAN-2-OL				
IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg
ISOPROPYL ACETATE				
IVN	RAT	LDLO	174	mg/kg
ORL	RAT	LD50	6750	mg/kg
METHYL ACETATE				
ORL	RAT	LD50	>5	gm/kg
SCU	RAT	LDLO	8	gm/kg
METHANOL				
IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg
ISOBUTANOL				
IVN	MUS	LD50	417	mg/kg
IVN	RAT	LD50	340	mg/kg
ORL	RAT	LD50	2460	mg/kg

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11.1. Information on toxicological effects continued

Hazardous ingredients:

4-METHYLPENTAN-2-ONE

IPR	RAT	LD50	400	mg/kg
ORL	MUS	LD50	1900	mg/kg
ORL	RAT	LD50	2080	mg/kg

PROPYL ACETATE

ORL	MUS	LD50	8300	mg/kg
ORL	RAT	LD50	9270	mg/kg

BUTAN-1-OL

IVN	RAT	LD50	310	mg/kg
ORL	MUS	LD50	2680	mg/kg
ORL	RAT	LD50	790	mg/kg

PROPAN-1-OL

IVN	RAT	LD50	590	mg/kg
ORL	MUS	LD50	6800	mg/kg
ORL	RAT	LD50	1870	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Reproductive toxicity	-	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
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. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

12 Ecological information

12.1. Toxicity

Hazardous ingredients:

ETHYL ACETATE

FISH	96H LC50	230	mg/l

ACETONE

BLUEGILL (Lepomis macrochirus)	LC50	8300	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

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12 Ecological information

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 substance is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

13 Disposal Considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14 Transport information

14.1. UN Number

UN number: UN1263

14.2. UN proper shipping name

Shipping name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** Yes

14.6. Special precautions for user

Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

15 Regulatory information

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

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.

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Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Other information continued

Phrases used in s.2 and 3:

EUH066: Repeated exposure may cause skin dryness or cracking.
H224: Extremely flammable liquid and vapour.
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H301: Toxic if swallowed.
H302: Harmful 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.
H318: Causes serious eye damage.
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 <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
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>.
H411: Toxic to aquatic life with long lasting effects.

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.