RIBBLE TECHNOLOGY LTD

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Standard Thinners
- Product Part Number: 3002

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

- Use of the substance/mixture: Thinner

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Ribble Technology Limited
- Address of Supplier: Units 11-14 Ripon Hall Farm
  Catterall Lane
  Catterall
  Lancashire
  PR3 0PA
- Telephone: 01772 202227
- Responsible Person: Ribble Technology Technical Team
- Email: sales@ribbletechnology.co.uk

1.4 Emergency telephone number

- Emergency Telephone: 01772 202227 (office hours only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Asp. Tox. 1, STOT SE 3, Flam. Liq. 1, Eye Irrit. 2, Repr. 2, STOT RE 2, Aquatic Chronic 3

2.2 Label elements

- Signal Word: Danger

- Hazard statements
  H224 - Extremely flammable liquid and vapour.
  EUH066 - Repeated exposure may cause skin dryness or cracking.
  H401 - Toxic to aquatic life.
  H336 - May cause drowsiness or dizziness.
  H373 - May cause damage to organs through prolonged or repeated exposure.
  H319 - Causes serious eye irritation.
  H304 - May be fatal if swallowed and enters airways.
  H412 - Harmful to aquatic life with long lasting effects.

- Precautionary statements
  P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2: Hazards identification (....)

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P403+P235 - Store in a well-ventilated place. Keep cool.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

SECTION 3: Composition/information on ingredients

3.2 Mixtures

- methanol

CAS Number:	67-56-1
EC Number:	200-659-6
REACH Registration Number:	01-2119433307-44-xxxx
Concentration:	5 - 10%
Categories:	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1
Symbols:	GHS02;GHS06;GHS08;F; T
R/H Phrases:	H225;H331;H311;H301;H370 **;R11;R23/24/25;R39/23/24/25

- ethanol; ethyl alcohol

CAS Number:	64-17-5
EC Number:	200-578-6
REACH Registration Number:	01-2119457610-43-xxxx
Concentration:	5 - 10%
Categories:	
Symbols:	GHS02;F
R/H Phrases:	H225;R11

- acetone; propan-2-one; propanone

CAS Number:	67-64-1
EC Number:	200-662-2
REACH Registration Number:	01-2119471330-49-xxxx
Concentration:	10 - 30%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xi
R/H Phrases:	H225;H319;H336;EUH066;R11;R36;R66;R67

- propan-2-ol; isopropyl alcohol; isopropanol

SECTION 3: Composition/information on ingredients (....)

CAS Number:	67-63-0
EC Number:	200-661-7
REACH Registration Number:	01-2119457558-25-xxxx
Concentration:	<5%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xi
R/H Phrases:	H225;H319;H336;R11;R36;R67

- 1-methoxy-2-propanol; monopropylene glycol methyl ether

CAS Number:	107-98-2
EC Number:	203-539-1
Concentration:	5 - 10%
REACH Registration Number:	01-2119457435-35-xxxx
Categories:	STOT SE 3
Symbols:	GHS02;GHS07
R/H Phrases:	H226;H336;R10;R67

- butanone; ethyl methyl ketone

CAS Number:	78-93-3
EC Number:	201-159-0
REACH Registration Number:	01-2119457290-43-xxxx
Concentration:	5 -10%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xi
R/H Phrases:	H225;H319;H336;EUH066;R11;R36;R66;R67

- n-hexane

CAS Number:	110-54-3
EC Number:	203-777-6
REACH Registration Number:	01-2119480412-44-xxxx
Concentration:	5 - 10%
Categories:	Skin Irrit. 2, Repr. 2, STOT SE 3, STOT RE 2, Aquatic Chronic 2
Symbols:	GHS02;GHS08;GHS07;GHS09;F; Xn; N
R/H Phrases:	H225;H361f ***;H304;H373 **;H315;H336;H411;R11;R38;R48/20;R62;R65;R67;R51/53

- butan-2-ol

CAS Number:	78-92-2
EC Number:	201-158-5
REACH Registration Number:	01-2119475146-36-xxxx
Concentration:	5 -10%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;Xi
R/H Phrases:	H226;H319;H335;H336;R10;R36/37;R67

- ethyl acetate

SECTION 3: Composition/information on ingredients (....)

CAS Number:	141-78-6
EC Number:	205-500-4
REACH Registration Number:	01-2119475103-46-xxxx
Concentration:	5 - 10%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xi
R/H Phrases:	H225;H319;H336;EUH066;R11;R36;R66;R67

- isopropyl acetate

CAS Number:	108-21-4
EC Number:	203-561-1
REACH Registration Number:	01-2119537214-46
Concentration:	5 - 10%
Categories:	Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xi
R/H Phrases:	H225;H319;H336;EUH066;R11;R36;R66;R67

- 4-methylpentan-2-one; isobutyl methyl ketone

CAS Number:	108-10-1
EC Number:	203-550-1
REACH Registration Number:	01-2119473980-30-xxxx
Concentration:	5 -10%
Categories:	Acute Tox. 4, Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07;F; Xn
R/H Phrases:	H225;H332;H319;H335;EUH066;R11;R20;R36/37;R66

- heptane; n-heptane

CAS Number:	142-82-5
EC Number:	205-563-8
REACH Registration Number:	01-2119457603-38-xxxx
Concentration:	5 - 10%
Categories:	Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1
Symbols:	GHS02;GHS08;GHS07;GHS09;F; Xn; N
R/H Phrases:	H225;H304;H315;H336;H400;H410;R11;R38;R65;R67;R50 /53

- toluene

CAS Number:	108-88-3
EC Number:	203-625-9
REACH Registration Number:	01-2119471310-51-xxxx
Concentration:	10 - 40%
Categories:	Skin Irrit. 2, Repr. 2, STOT SE 3, STOT RE 2
Symbols:	GHS02;GHS08;GHS07;F; Xn
R/H Phrases:	H225;H361d ***;H304;H373 **;H315;H336;R11;R38;R48/20;R63;R65;R67

- n-butyl acetate

SECTION 3: Composition/information on ingredients (....)

CAS Number: 123-86-4
EC Number: 204-658-1
REACH Registration Number:
Concentration: 5 - 10%
Categories: STOT SE 3
Symbols: GHS02;GHS07
R/H Phrases: H226;H336;EUH066;R10;R66;R67

- xylene
  CAS Number: 1330-20-7
  EC Number: 215-535-7
  Concentration: 5 - 10%
  Categories: Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2
  Symbols: GHS02;GHS07;Xn
  R/H Phrases: H226;H332;H312;H315;R10;R20/21;R38
- Hydrocarbons, C9, aromatics
  CAS Number: 64742-95-6
  EC Number: 918-668-5
  Concentration: 5 -10%
  Categories: STOT SE 3, Aquatic Acute 1
  Symbols: GHS02, GHS08, GHS09, GHS07
  H Statements: H226; H304; H411; H335-H336

SECTION 4: First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- IF exposed or concerned: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
- May cause severe irritation
- May cause redness and irritation
- Inhalation
- Causes dizziness, confusion, headache or stupor
- Aspiration hazard
- Contact with skin
- Causes severe irritation
- In cases of severe exposure, severe irritation may develop
- Ingestion
- Aspiration hazard

SECTION 4: First aid measures (....)

- Causes dizziness, confusion, headache or stupor
- Causes gastro-intestinal disturbances

4.3 Indication of any immediate medical attention and special treatment needed

- Immediately call a POISON CENTER or doctor/physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Do not use water jets

5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Never direct water jets on leaking liquid
- Wear protective clothing as per section 8
- Wear chemical protection suit and positive-pressure breathing apparatus
- Decomposition products may include toxic and irritant fumes
- Keep container(s) exposed to fire cool, by spraying with water

SECTION 6: Accidental release measures

Spillage causes slippery surface

Vapours may ignite

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- Stop leak if safe to do so.

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
- In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air
- Stop leak if safe to do so.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Collect as much as possible in clean container for reuse or disposal
- Dispose of this material and its container at hazardous or special waste collection point

6.4 Reference to other sections

- See Section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective gloves/protective clothing/eye protection/face protection.
- Forms hazardous decomposition products
- Use explosion-proof [electrical/ventilating/lighting/
- Use non-sparking tools.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Get medical advice/attention if you feel unwell.
- Dispose of contents/container to an authorised waste collection point

7.2 Conditions for safe storage, including any incompatibilities

- Forms hazardous decomposition products
- Use explosion-proof [electrical/ventilating/lighting/
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Stable under normal conditions
- Keep away from oxidising substances

7.3 Specific end use(s)

- See Section 8, 13

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- acetone; propan-2-one; propanone
  WEL (long term): 12103620 mg/m3
  WEL (short term): 3620 mg/m3
- butan-2-ol
  WEL (short term): 308 mg/m3
  WEL (long term): 462 mg/m3
- butanone; ethyl methyl ketone
  WEL (short term): 600 mg/m3
  WEL (long term): 899 mg/m3
- n-butyl acetate
  WEL (long term): 724 mg/m3
  WEL (short term): 966 mg/m3
- ethanol; ethyl alcohol
  WEL (long term): 1920 mg/m3
- ethyl acetate
  WEL (long term): 200 ppm
  WEL (short term): 400 ppm
- heptane; n-heptane

SECTION 8: Exposure controls/personal protection (....)

WEL (long term): 2085500 mg/m3
WEL (short term): 500 ppm

- n-hexane
  WEL (long term): 72216 mg/m3
  WEL (short term): 216 mg/m3
- 4-methylpentan-2-one; isobutyl methyl ketone
  WEL (long term): 208 mg/m3
  WEL (short term): 416 mg/m3
- isopropyl acetate
  WEL (short term): 849 mg/m3
- methanol
  WEL (long term): 266 mg/m3
  WEL (short term): 333 mg/m3
- 1-methoxy-2-propanol; monopropylene glycol methyl ether
  WEL (long term): 770 mg/m3
  WEL (short term): 616 mg/m3
- propan-2-ol; isopropyl alcohol; isopropanol
  WEL (long term): 999 mg/m3
  WEL (short term): 1250 mg/m3
- toluene
  WEL (long term): 191 mg/m3
  WEL (short term): 384 mg/m3
- xylene
  WEL (long term): 220 mg/m3
  WEL (short term): 441 mg/m3

8.2 Exposure controls

- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Colourless liquid
- Boiling Point/Range: 56
- Density: Not known g/cm3
- Flash point: <21 deg C (CC)
- Melting point/Range: Melting point - not known
- Odour: Strong smell of solvent
- pH: 5 -9

SECTION 9: Physical and chemical properties (....)

9.2 Other information

- None

SECTION 10: Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- In use, may form flammable/explosive vapour-air mixture
- No hazardous reactions known if used for its intended purpose
- Vapours may ignite

10.4 Conditions to avoid

- Avoid contact with oxidising substances
- Keep away from heat and sources of ignition
- Keep away from naked flames, incandescent or hot surfaces

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous decomposition products

- Decomposition products may include toxic and irritant fumes

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- toluene
  LD50 (oral,rat): 5000 mg/kg
  LD50 (skin,rat): 12124 mg/kg
  LC50 (inhalation,rat): 28.1 mg/l/4h

SECTION 12: Ecological information

12.1 Toxicity

- heptane; n-heptane
  EC50 (daphnia): >1 mg/l (48 hr)
  LC50 (fish): >1 mg/l (96 hr)
- Hydrocarbons, C9, aromatics
  IC50 (algae): 10 mg/l (72 hr)
  EC50 (daphnia): 10 mg/l (48 hr)
  LC50 (fish): 4.6 mg/l (96 hr)

12.2 Persistence and degradability

SECTION 12: Ecological information (....)

- Readily biodegradable

12.3 Bioaccumulative potential

- Low bioaccumulation potential

12.4 Mobility in soil

- This substance is poorly absorbed onto soils or sediments
- Substance remaining on soil surface evaporated within one day
- immiscible with water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

- Toxic to sewage works organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Dispose of this material and its container at hazardous or special waste collection point

- Dispose of contents/container to an authorised waste collection point
- Dispose of contents/container to

SECTION 14: Transport information

14.1 UN number

- UN No.: 1993

14.2 Proper Shipping Name

- Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- Marine pollutant

14.6 Special precautions for user

- Transport Regulations apply as indicated in previous section

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

- Not applicable

SECTION 15: Regulatory information

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

- Labelling according to Regulation (EC) No 1272/2008 GHS label elements

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
- This Safety Data Sheet does not constitute a workplace risk assessment

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH066: Repeated exposure may cause skin dryness or cracking. 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. R10: Flammable. R11: Highly Flammable. R20: Harmful by inhalation. R20/21: Harmful by inhalation and in contact with skin. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R36: Irritating to eyes. R36/37: Irritating to eyes and respiratory system. R38: Irritating to skin. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62: Possible risk of impaired fertility. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.

Legal Disclaimer

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

--- end of safety datasheet ---