SAFETY DATA SHEET

(WILLIAM WILSON) CONC HEAT TRANSFER ANTIFREEZE

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Revision No: 1

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

1.1. Product identifier

Product name: (WILLIAM WILSON) CONC HEAT TRANSFER ANTIFREEZE

Product code: HC1297

Synonyms: HC1297 / WW

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

Use of substance / mixture: PC4: Anti-Freeze and de-icing products.

1.3. Details of the supplier of the safety data sheet

Company name: LIQUID SCIENCE SOLUTIONS LIMITED
Bentley Wood Way
Network 65 Business Park
Hapton, Burnley
Lancashire
BB11 5ST

Tel: 01282 831251

Fax: 01282 450456

Email: info@liquidscience.co.uk

1.4. Emergency telephone number

Emergency tel: 0777 342 9963

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Sens. 1: H317

Most important adverse effects: May cause an allergic skin reaction.

2.2. Label elements

Label elements:

Hazard statements: H317: May cause an allergic skin reaction.

Hazard pictograms: GHS07: Exclamation mark

Signal words: Warning

Precautionary statements: P102: Keep out of reach of children.

[cont...]

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Haz. ingredients (label): Contains:
A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6]

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

MONO PROPYLENE GLYCOL - REACH registered number(s): 01-2119456809-23-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-338-0	57-55-6	Substance with a Community workplace exposure limit.	-	>90%

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6]

-	55965-84-9	-	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	<1%

Non-classified ingredients:

TRIETHANOLAMINE - REACH registered number(s): 01-2119486482-31-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-049-8	102-71-6	-	-	<1%

BENZOTRIAZOLE - REACH registered number(s): 01-2119979079-20-XXXX

202-394-1	95-14-7	-	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319	<1%

PHOSPHONOBUTANE TRICARBOXYLIC ACID - REACH registered number(s): 01-2119436643-39-XXXX

253-733-5	37971-36-1	-	Met. Corr. 1: H290	<1%

Section 4: First aid measures

[cont...]

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Consult a doctor.
Inhalation: Not applicable.

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: Exposure may cause coughing or wheezing.
Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

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: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Spillage will create slippery surface.

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. Wash the spillage site with large amounts of water.

[cont...]

6.4. Reference to other sections

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

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

MONO PROPYLENE GLYCOL

Workplace exposure limits: **Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	150 ppm	No standard	-	-

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC

UK	0.05 mg/m3	-	-	-

Non-classified ingredients:

TRIETHANOLAMINE

Workplace exposure limits: **Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5 mg/m3 (no std.)	-	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Hand protection: Impermeable gloves.
Eye protection: Safety glasses. Ensure eye bath is to hand.
Skin protection: Impermeable protective clothing.

[cont...]

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Colourless
Odour: Perceptible odour
Evaporation rate: Negligible
Solubility in water: Highly soluble
Viscosity: Oily
Boiling point/range°C: 185
Melting point/range°C: minus 60
Flammability limits %: lower: 2.6
upper: 12.6
Flash point°C: 99
Part.coeff. n-octanol/water: No data available.
Autoflammability°C: >430
Vapour pressure: No data available.
Relative density: 1.045
pH: 8 - 9 (10% sol'n)
VOC g/l: 0

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.

10.3. Possibility of hazardous reactions

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.

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.

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

Hazardous ingredients:

MONO PROPYLENE GLYCOL

ORL	RAT	LD50	>5000	mg/Kg

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 220-239-6]

DERMAL	RBT	LD50	78	mg/kg
ORL	RAT	4H LC50	64	mg/kg
VAPOURS	RAT	LD50	60	mg/kg

Non-classified ingredients:

TRIETHANOLAMINE

ORL	RAT	LD50	>2	g/kg
SKN	RBT	LD50	>10	g/kg

BENZOTRIAZOLE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	560	mg/kg

PHOSPHONOBUTANE TRICARBOXYLIC ACID

DERMAL	RAT	LD50	>4000	mg/kg
ORAL	RAT	LD50	>6500	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	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: Exposure may cause coughing or wheezing.

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

Section 12: Ecological information

12.1. Toxicity

[cont...]

Hazardous ingredients:

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC

ALGAE	48H EC50	0.027	mg/l
DAPHNIA	48H EC50	0.18	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.19	mg/l

TRIETHANOLAMINE

FISH	48H EC50	1390	mg/l
FISH	96H LC50	>5000	mg/l

BENZOTRIAZOLE

ZEBRAFISH (Brachydanio rerio)	96H LC50	>100	mg/l

PHOSPHONOBUTANE TRICARBOXYLIC ACID

FISH	96H LC50	>1042	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. Non-volatile. Soluble in water.

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: The product will not be dangerous to the environment when diluted in waste water systems and may be disposed of as low-hazard chemical waste within the scope of national and local regulations/permits.

Recovery operations: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Waste code number: 20 01 99

Disposal of packaging: Dispose of as normal industrial waste. Clean with water.

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

[cont...]

Section 14: Transport information

Transport class: This product does not require a classification for transport.

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.

IMPORTANT NOTE:

Risk phases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product.

See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

Phrases used in s.2 and s.3: H290: May be corrosive to metals.
H301: Toxic if swallowed.
H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H410: Very 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.