



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>RECO-COOL 501-40XSC (A)</b>
<b>Other Names</b>	Coolant superconcentrate
<b>Manufacturer's Product Code</b>	19250
<b>Recommended Use</b>	To produce engine coolant

### Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au


### Emergency Telephone Numbers

Business Hours:	(07) 3308 5200
After Hours:	1300 131 001
Poisons Information:	Australia: 13 11 26 New Zealand: 0800 764 766

## SECTION 2 HAZARDS IDENTIFICATION

<b>Hazardous chemical</b>	<i>according to classification by Safe Work Australia</i>
<b>Non-dangerous goods</b>	<i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i>

<b>Signal Word</b>	<b>WARNING</b>
--------------------	----------------

Hazardous chemical classification	Pictogram	Hazard statement
Skin Corrosion/Irritation, Category 2	 EXCLAMATION MARK	H315 Causes skin irritation
Acute Aquatic Toxicity, Category 2		H401 Toxic to aquatic life

### Precautionary statements:

GENERAL	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use

**Product: RECO-COOL 501-40XSC (A)**

<i>PREVENTATIVE</i>	
P260	Do not breathe mists
P264	Wash thoroughly after handling
P273	Avoid release to the environment
P280	Wear protective gloves
<i>RESPONSE</i>	
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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 so. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse
<i>DISPOSAL</i>	
P501	Dispose of contents/container in accordance with local regulations

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS****Ingredients Names and Proportions**

Chemical Entity	CAS Number	Proportion (%)
Sodium Nitrite	7632-00-0	< 5
Potassium Hydroxide	1310-58-3	< 5
Other non-hazardous ingredients	-	20 – 30
Water	-	Balance

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

Inhalation:	Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment
Skin Contact:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Seek medical attention
Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek medical attention
Ingestion:	If swallowed, do NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek medical attention

**Symptoms caused by exposure**

Inhalation:	May include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing
Skin:	A skin irritant. May include burning sensation, redness, swelling and/or blisters
Eye:	An eye irritant. May include burning sensation, redness, swelling, blurred vision and corneal burns. May result in permanent injury
Ingestion:	May result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract

**Medical attention and special treatment**

Treat symptomatically.

---

**SECTION 5 FIRE FIGHTING MEASURES**

---

**Suitable extinguishing equipment**

Non-combustible, not considered to be a significant fire risk.

**Specific hazards arising from the chemical**

May evolve oxides of carbon and nitrogen on decomposition.

**Special protective equipment and precautions for fire fighters**

Wear full protective clothing and self-contained breathing apparatus. Hazchem code 2X.

---

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

---

**Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Do NOT ingest. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Ventilate contaminated area thoroughly.

**Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers.

**Methods and materials for containment and cleaning up**

For small spills (< 1 drum), dilute with water and mop up, or absorb with dry inert material, and place in an appropriate labelled, sealable container for product recovery or safe disposal.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste.

Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

---

**SECTION 7 HANDLING AND STORAGE**

---

**Precautions for safe handling**

Avoid breathing vapours. Do NOT ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidisers.

---

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

---

**Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia -

Sodium nitrite: None assigned

Potassium Hydroxide: 2mg/m<sup>3</sup> (peak) TWA

**Biological monitoring**

No biological limit allocated.

**Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Product: RECO-COOL 501-40XSC (A)****Individual protection measures**

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear colourless liquid
Odour:	Low
Odour threshold (ppm):	Data not available
pH:	12 – 13
Melting point/freezing point (°C):	-5 (approx.)
Initial boiling point and boiling range (°C):	107 (approx.)
Flash point (°C):	Data not available
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Data not available
Upper/lower flammability or explosive limits (%):	Data not available
Vapour pressure (mmHg @ 20°C):	2.3
Vapour density (air = 1):	Data not available
Density (g/ml @ 15°C):	1.2 – 1.3
Solubility:	Data not available
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm <sup>2</sup> /s @ 20°C):	Data not available

**SECTION 10 STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

**Product: RECO-COOL 501-40XSC (A)**

**Conditions to avoid**

Avoid oxidising and reducing agents and naked flames.

**Incompatible materials**

Strong acids, oxidising and reducing agents.

**Hazardous decomposition products**

May evolve oxides of carbon and nitrogen.

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

---

Acute toxicity:	Sodium Nitrite: LD50 Oral (mouse) = 175mg/kg Potassium Hydroxide: LD50 Oral (rat) = 300mg/kg It is estimated that the combine acute oral toxicity of this product is of the order 2200 mg/kg. Swallowing this product may result in nausea, vomiting and stomach pain
Skin corrosion/irritation:	Potassium Hydroxide: Skin – rabbit, Result – Severe skin irritation (24h). It is estimated that the effect of this product will be – irritant, prolonged contact may cause tissue damage
Serious eye damage/irritation:	Potassium Hydroxide: Eyes – rabbit, Result- Corrosive to eyes. It is estimated that the effect of this product will be – may cause eye irritation, corneal injury may develop with possible permanent injury and impairment of vision if not promptly and adequately treated
Respiratory or skin sensitisation:	Data not available
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Data not available
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	Inhalation of spray or mist may produce severe irritation of the respiratory tract. The onset of symptoms may be delayed
Specific Target Organ Toxicity (STOT) – repeated exposure:	Toxic to kidneys, the nervous system, liver and blood
Aspiration hazard:	Data not available

---

**SECTION 12 ECOLOGICAL INFORMATION**

---

**Ecotoxicity**

Acute toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available
Algae –	Data not available
Microorganisms –	Data not available

**Product: RECO-COOL 501-40XSC (A)**

**Persistence and degradability**

Data not available.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

Miscible with water.

**Other adverse effects**

Data not available.

---

**SECTION 13 DISPOSAL CONSIDERATIONS**

Ensure waste disposal conforms to local waste disposal regulations.

---

**SECTION 14 TRANSPORT INFORMATION**

<b>UN number:</b>	1760
<b>Proper shipping name:</b>	CORROSIVE LIQUID, N.O.S. (Potassium Hydroxide)
<b>Australian Dangerous Goods class:</b>	8
<b>Australian Dangerous Goods packing group:</b>	III
<b>Hazchem code:</b>	2X

---

**SECTION 15 REGULATORY INFORMATION**

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	6
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	37

---

**SECTION 16 OTHER INFORMATION**

Date of preparation:	16/07/2019
Revision number:	3
Changes in this revision:	Revised due to expiry, no change to classification of material

---

This MSDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Recochem on (07) 3308 5200.

---