LIQUIDATE

Section 1. Identification

Product identifier: Liquidate **Product Code:** LQD

Other means of identification: N/A

Recommended use and restrictions on use: Heavy duty degreaser. Use in accordance with directions on product label.

Supplier: True Blue Chemicals

Street Address: 2/1 Endeavour Road Caringbah NSW 2229

Postal Address: PO Box 334 Caringbah NSW 1495

Phone No: 1800 635 746 **Fax No:** 02 9540 1983

Internet: www.truebluechemicals.com.au

Emergency Phone No - 13 11 26 - Poisons Information Centre

Section 2. Hazards Identification

Classified as hazardous according to the criteria of Safe Work Australia (SWA).

Not classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification

Serious Eye Damage/Irritation - Category 1

Skin Corrosion/Irritation - Category 2

Signal Word

DANGER

Hazard Statements

Causes serious eye damage

Causes skin irritation

Pictograms

Precautionary Statements

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call the POISONS INFORMATION CENTRE (13 11 26 - Australia only) or a doctor.

Section 3. Composition and Information on Ingredients

Chemical Name	CAS Number	Percentage (%)
Sodium metasilicate	10213-79-3	1-10
Other ingredients determined not to be hazardous or below concentration cut-off		to 100

Section 4. First Aid Measures

Swallowed: DO NOT induce vomiting. Give plenty of water to drink. Get medical attention.

Eye Contact: Rinse with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist seek medical attention.

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing and wash before reuse.

Inhalation: Move victim to fresh air, if symptoms develop, seek medical advice.

Symptoms caused by exposure: May experience burning sensation, shortness of breath, headache, nausea and vomiting.

Medical attention and special treatment: No specific treatment. Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable extinguishing equipment:
Not flammable. Use extinguishing media suitable for surrounding fire.

Specific hazards arising from the chemical:
Carbon dioxide, carbon monoxide, may evolve oxides of ammonia & other toxic gases in the case of fire.

Special protective equipment and precautions for fire fighters:
Firefighters should wear full protective clothing including self-contained breathing apparatus & chemical splash suit. Remove from the vicinity containers not involved in the fire.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Clean up spill promptly to avoid accidents. Wear protective equipment (see Section 8) to prevent skin & eye contamination & inhalation of mists and vapours. Stop leak if safe to do so. Ensure adequate ventilation.

Environmental precautions:
Ensure no spillage enters drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or local Council.

Methods and materials for containment and cleaning up:
Cover with damp absorbent material (inert material, sand or soil). Sweep up, but avoid generating dust. Collect & seal in properly labeled drums for disposal.

Section 7. Handling and Storage

Precautions for safe handling:
Observe good personal hygiene practices and recommended procedures. Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including incompatibilities
Store in a cool, dry, well-ventilated place & out of direct sunlight. Store away from strong acids and oxidisers. Keep containers closed at all times – check regularly for spills.

Section 8. Exposure Controls and Personal Protection

National Exposure Standards: None of the components have an established Occupational Exposure Limit (Source: Safe Work Australia – Workplace Exposure Standards For Airborne Contaminants).

Engineering Controls:

Natural ventilation should be adequate under normal use conditions. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual Protection Measures:

Eye and face protection	Safety glasses or chemical resistant goggles should be worn to prevent eye contact.
Skin protection	Wear nitrile, neoprene or natural rubber gloves to prevent skin contact.

Respiratory protection	Not normally needed. If significant vapours or mists are generated, use an appropriate respirator in accordance with AS/NZS 1715 and AS/NZS 1716.
Thermal hazards	Refer to Section 5.

Section 9. Physical and Chemical Properties

Appearance:	Liquid	**Colour:**	Blue/green
Odour:	Characteristic	**Boiling Point(°C):**	Not available
Vapour Pressure:	Not available	**Specific Gravity:**	1.03 - 1.05
Flashpoint (°C):	Not available	**Flammability:**	Not flammable
Water Solubility:	Complete	**pH:**	12.5 - 13.5
Auto-ignition Temperature:	Not available	**Viscosity:**	Not available
Relative Density:	Not available	**Evaporation Rate:**	Not available
Vapour Pressure	Not available	**Melting Point/Freezing Point**	Not available
Partition Coefficient: n-octanol/water	Not available	**Upper/Lower Flammability or Explosive Limits:**	Not available

Section 10. Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable under normal ambient storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Avoid high temperatures (store below 30°C). Protect against physical damage.
Incompatible Materials:	Do not mix with other chemicals. Store away from acids and strong oxidisers.
Hazardous Decomposition Products:	Oxides of ammonium, oxides of carbon, hydrogen gas.

Section 11. Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled and over exposure occurs are:

Information on Route of Exposure

Acute Toxicity:

Ingestion:	Swallowing in small amounts is unlikely to cause any adverse effects. Larger doses may cause nausea and vomiting.
Eye Contact:	No effects known.
Skin Contact:	No effects known.
Inhalation:	In large amounts can cause headache, nausea and mucous membrane irritation.

Skin Corrosion/Irritation:	Irritating to skin
Serious Eye Damage/Irritation:	Severely irritating and may cause irreversible eye damage if left untreated.
Respiratory or Skin Sensitisation:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (STOT) - Single Exposure:	Not classified
Specific Target Organ Toxicity (STOT) - Repeated Exposure:	Not classified
Aspiration Hazard:	Not classified

Immediate, Delayed and Chronic Health Effects From Exposure: May experience burning sensation, shortness of breath, headache, nausea and vomiting.

Other Information: None known.

Section 12. Ecological Information

Ecotoxicity:	No product data available.
Persistence and Degradability	Expected to be readily biodegradable.
Bioaccumulative Potential	Not expected to bioaccumulate.
Mobility in Soil	Negligible sorption to soil / sediment, rapid migration to ground water (Estimated Log K_{OC} value (EpiSuite 4.1 KOCWIN): <1.5)
Other Adverse Effects	None known

Section 13. Disposal Considerations

Disposal Methods	Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste third party, in accordance with local regulations.

Section 14. Transport Information

Not classified as Dangerous Good by the criteria of the Australian Dangerous Goods Code (ADG 7.3) for transport by Road and Rail.

UN Number	Not applicable
Proper Shipping Name or Technical Name	Not applicable
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental hazards for Transport purposes	Not applicable
Special User Precautions	Not applicable
Additional Information	Not Applicable
Hazchem or Emergency Action Code	Not applicable

Section 15. Regulatory Information

NICNAS: All substances are listed on the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule (SUSMP): None allocated

Section 16. Other Information

This information is provided to the best of our knowledge and belief, accurate as of the last revision date. It is provided in good faith and relates to the specific materials designated. True Blue Chemicals assumes no liability or responsibility for loss or damage resulting from improper use or handling of our products from incompatible product combinations or from failure to follow usage directions. This document remains the property of True Blue Chemicals Pty Ltd. Alterations are not permitted without prior written authorisation from True Blue Chemicals Pty Ltd.

Glossary:

Peak limitation means a maximum or peak airborne concentration of a substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

Log Koc Adsorption Classifications

> 4.5 Very strong sorption to soil / sediment, negligible migration to ground water
3.5 - 4.4 Strong sorption to soil / sediment, negligible to slow migration to ground water
2.5 - 3.4 Moderate sorption to soil / sediment, slow migration to ground water
1.5 - 2.4 Low sorption to soil / sediment, moderate migration to ground water
< 1.5 Negligible sorption to soil / sediment, rapid migration to ground water

References

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice - Safe Work Australia

2. Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)
3. Workplace Exposure Standards for Airborne Contaminants – Safe Work Australia
4. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
5. Hazardous Substances Information System (HSIS) – Safe Work Australia
6. Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
7. European Chemicals Agency (http://echa.europa.eu/)
8. Ansell Chemical Resistance Guide – Permeation & Degradation data

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