

## Material Safety Data Sheet

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**PRODUCT NAME: CITRUS 10,000 QB**

Synonyms: None

Recommended Use: Industrial Degreaser

**Supplier:** Minehan Agencies Pty Ltd

**Address:** 29 Camuglia Street GARBUTT Townsville Queensland Australia 4814

**Telephone:** (07) 4774 4626

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**Emergency telephone number: 0408 777 800** ( 24Hrs Australia)

### 2. HAZARDS IDENTIFICATION

This product is classified as :

**A Non-Hazardous Substance** according to criteria of the National Occupational Health and Safety Commission (NOHSC).

**NOT Dangerous Goods** according to the Australian Dangerous Goods Code (ADG Code).

<b>Approved Criteria Classification</b> (Calculated).	<b>Non Hazardous</b>
<b>SUSDP Classification</b>	<b>Not Scheduled</b>
<b>ADG Classification</b>	<b>Not Dangerous goods</b>
<b>Un Number</b>	<b>None allocated</b>

## EMERGENCY OVERVIEW

<b>COLOUR</b>	Clear Orange
<b>PHYSICAL DESCRIPTION</b>	LIQUID
<b>ODOUR</b>	Sweet citrus
<b>MAJOR HEALTH HAZARD</b>	Mild Skin & Eye irritant.

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### POTENTIAL HEALTH EFFECTS

**Inhalation: Short term exposure.** Very mild irritation may occur in some people. **Long term Exposure.** May trigger pre-existing respiratory complaints.

**Skin Contact: Short term exposure.** Defatting . **Long term exposure.** Prolonged exposure to the concentrate may cause irritation, redness and dermatitis.

**Eye Contact: Short term exposure.** Mild irritation and possible redness. **Long-term exposure.** Not known.

**Ingestion: Short term exposure.** Mild abdominal discomfort may result. **Long-term exposure.** Not known

### Carcinogen Status

NOHSC	Not Classified
NTP	Not Classified
IARC	Not Classified

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION W/W %
Ethylene Glycol Mono Butyl Ether	11176-2	< 10 %
Sodium Hydroxide	1310-73-2	< 5 %
d-Limonene	5989-27-5	< 10 %
Alkaline Salts		< 10 %
Non Hazardous Ingredients		to 100%

### 4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone (Australia 13 1126)

**Inhalation:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Perform artificial respiration if needed. Allow patient to assume most comfortable position and keep warm.

**Skin Contact :** Remove contaminated clothing. Wash contaminated skin for at least 15-20mins with of water, or until no evidence of the chemical remains (this product will feel slippery or soapy on the skin.). If swelling, redness, blistering, or irritation occurs seek medical advice. Wash clothing before re-use

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If present, remove contact lenses.

**Ingestion:** Immediately rinse mouth with water. Do NOT induce vomiting. Seek medical attention.

**Notes to Physician:** Treat symptomatically. Suggest intubation BEFORE any emesis due to foaming properties of this product

### 5. FIRE FIGHTING MEASURES

**Flash Point:** Not a Flammable or Combustible liquid

**Fire and Explosion Hazard:** Non-combustible material. Closed containers exposed to heat may explode.

**Specific Hazards:** Spills are a serious slip hazard.

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**Fire Fighting:** Move container from fire area if it can be done without risk. Dam for later disposal. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. **Suitable Extinguishing Media:** Not combustible, however, if material is involved in a major fire use water fog to keep drums cool. Use foam, CO<sub>2</sub> or dry chemical powder to extinguish surrounding fire.

**Hazardous Decomposition in Products:** On burning may emit fumes including carbon monoxide, carbon dioxide, Sulphur dioxide and partially burned hydrocarbons. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Hazchem Code:** None allocated

### 6. ACCIDENTAL RELEASE MEASURES

Alkaline liquid. Stop leak if possible without personal risk. Wear protective equipment to prevent personal injury ( see section 8). **Small spills (< 5L)** Cover with an absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of water. Caution, Slip Hazard. **Large spills (>5L)** Prevent run off into drains and waterways. Dam material. Cover with absorbent material. Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of water. Keep unnecessary people away, isolate hazard area and deny entry. If contamination of sewers or waterways has occurred, advise local emergency services.

### 7. HANDLING AND STORAGE

Store in a well-ventilated area. Store in a cool, dry place and out of direct sunlight. Store away from foodstuffs and strong acids. Store in original containers. Do not store in aluminium containers. Keep containers closed when not in use – check regularly for leaks. Handle using good industrial hygiene practices (see section 8 on personal protection).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** No value has been assigned for this specific material by NOHSC. However exposure limits for ingredients are shown below

Ingredient	TWA	STEL	Notices
Ethylene glycol monobutyl ether	20ppm	50ppm	Sk
Sodium Hydroxide	2ppm	5ppm	

TWA – the Time-Weighted Average airborne concentrations over an eight hour working day, for a five day week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Sk Notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

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Sen Notice- Sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Biological Limit Value:** No biological limit allocated

**Engineering Controls:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards and prevent exposure to vapours, mists and fumes. Use in well ventilated area. Keep containers closed when not in use.

### Personal Protection Equipment

**Respirator Type (AS 1716):** If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Eye Protection:** Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Glove Type:** Impervious PVC or rubber gloves should be worn.

**Clothing:** Suitable protective clothing should be worn eg: cotton overalls buttoned at neck and wrist.

**Work/Hygienic Practices:** Avoid skin and eye contact. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid		Water Solubility	Soluble
Colour	Clear Orange		Vapour Pressure	0.4mmHg
Odour	Sweet Citrus		Vapour Density	Above 1 (air =1)
Boiling Point	Approx 100°C		Evaporation Rate	Slower than butyl acetate
Melting Point	NA		% Volatiles	85%
Freezing Point	NA		Flash Point	Not Flammable
Specific Gravity	1.05g/ml (water =1)		Flammability Limits	NA
Ph (neat)	13 – 13.5		Ignition Temperature	NA

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable at normal temperatures and pressure

**Conditions to Avoid:** Avoid contact with incompatible materials.

**Incompatibilities:** Strong Oxidising Agents, Strong Acids  
Explosive reactions may occur with strong oxidising agents.  
Violent heat producing reactions may occur with strong acids.

**Hazardous Decomposition:** Thermal decomposition products include, sulphur dioxide, carbon dioxide, carbon monoxide, and Nitrous oxides.

**Polymerisation:** Will not polymerise.

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### 11. TOXICOLOGICAL INFORMATION

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**Local Effects:** Mild Irritant: Inhalation, & eyes.

**Target Organs:** Eyes and respiratory system.

#### Classification of Hazardous Ingredients

Ingredients	R Phrases
Sodium Hydroxide	R35, R41
Ethylene Glycol Monobutyl Ether	R36=20/21-22,36-37
d-Limonene	R36/37/38

#### Individual Ingredient Information

##### Sodium Hydroxide

**Irritation Data:** Skin Human, Patch test, 0.2ml of 0.5% soln, irritating for 55% of volunteers. Eye Rabbit, 0.004-0.2% non-irritant, 0.4% mild, 1.2% corrosive.

**Toxicity Data:** Repeated dose; no valid studies available. However under normal safe handling conditions and use (ie non-irritating) Sodium Hydroxide is not expected to be systemically available in the body.

**Local Effects:** Causes severe burns to eyes and skin. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

**Acute Toxicity Level:** Dependant on concentration and dose. Lethality has been reported for animals at doses 240-400mg/Kg. Fatal ingestion and fatal dermal exposure has been reported in humans. One person who ingested 10g of Sodium Hydroxide (equivalent to 45mls of Coil Shine) in water suffered transmural necrosis of the esophageus and stomach and died 3 days after admission to hospital. A 42-year-old female swallowed approximately 30mls of 16% Sodium Hydroxide solution ( equivalent to 20mls Coil Shine), it resulted in a 9cm stricture of the esophageus which was treated by gastric antral patch esophagoplasty.

**Target Organs:** Eyes, skin, mucous membranes, respiratory system

**Mutagenic Data:** Both *in vitro* and *in vivo* genetic toxicity tests indicated no evidence for a mutagenic activity.

**Reproduction Effects Data:** It can be stated that the substance will neither reach the foetus nor reach the male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction

Ref: OECD SIDS Initial Assessment Report, Sodium Hydroxide , Paris, 26-28 March 2002.

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### d-Limonene

**Irritation Data:** skin rabbit 10%/24hr mild.

**Toxicity Data:** oral LD50 mouse 5600mg/kg

**Local Effects:** Irritation to lungs and thorax

**Acute Toxicity Level:** Toxic by ingestion

**Target Organs:** Respiratory System, CNS

**Mutagenic Data:** mouse fibroblast 0.5pph/21day (enzymatic activation step)

**Reproduction Effects Data:** Lowest published toxic dose: mouse 3546mg/kg (7-12 day preg) specific developmental abnormalities

## 12. ECOLOGICAL INFORMATION

**General Statement:** Do not allow large quantities (>100L) of this product to enter the waterways. Alkaline effect will be detrimental to aquatic life.

**Ecotoxicity:** This product is hazardous to the environment due to the high alkali content (pH effect). The effect of this product on an organism depends on the buffer capacity of the aquatic or terrestrial ecosystem. LC50 (Sodium Hydroxide) values of acute toxicity tests with aquatic organisms ranged between 33 and 189 mg/L.

**Persistence and Degradability:** No specific information available for this product

**Mobility:** Very mobile in soil and very soluble in water. No transport to air

## 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority for disposal, show this MSDS for their consideration. Empty containers not to be recycled or used for any other purpose. Dispose in accordance with local regulations.

## 14. TRANSPORTATION INFORMATION

<b>UN No</b>	None allocated
<b>Proper Shipping Name</b>	None allocated
<b>ADG Code</b>	Not Dangerous Goods
<b>Sub Risk</b>	None
<b>Packing Group</b>	None
<b>Special Precautions</b>	None
<b>Hazchem Code</b>	None
<b>EPG</b>	None
<b>Segregations</b>	None

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### 15. REGULATORY INFORMATION

**SUSDP:** Not Scheduled

**AICS:** All of the constituents of this material are listed on the ACIS.

### 16. OTHER INFORMATION

**Issue Date:** July 2008

**Reason(s) For Issue:** Initial

#### Labelling Details

Although this material is not hazardous the following safety statements are recommended as part of good Industrial work practices.

S2 Keep out of reach of children.

S24/25 Avoid contact with skin & eyes

S26 In case of contact with eye/s, do NOT rub eyes as this may scratch the cornea, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear Suitable protective clothing, gloves and eye protection

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible).

#### Abbreviations & Acronyms

**SUSPD:** Standard for the Uniform Scheduling of Drugs and Poisons

**ADG:** Australian Code for the Transport of Dangerous Goods by Road and rail

**N.O.S.** Not Otherwise Specified

**CAS No:** Chemical Abstracts Service Registry Number

**UN No:** United Nations Number

**R-Phrases:** Risk Phrases

**S-Phrases:** Safety Phrases

**HAZCHEM Code:** Hazardous Chemical emergency action code

**NOHSC:** National Occupational Health and Safety Commission

**IARC:** International Agency for Research into Cancer

**ACIS:** Australian Inventory of Chemical Substances

**NTP:** National Toxicology Program (USA)

#### Literary references:

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(41999)]

National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)]

Exposure Standards for Atmospheric Contaminants in the Occupational Environment

Guidance Note [NOHSC:3008(1995)] National Exposure Standards [NOHSC:10005(1999)]

List of Designated Hazardous Substances [NOHSC:10005(1999)]

Standard for the Uniform Scheduling of Drugs and Poison No. 17

The Australian Code for the Transport of Dangerous Goods by Road and Rail EDITION 6

#### Disclaimer

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.

Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.