

# SAFETY DATA SHEET

Con-Treat T LTD	Product: WB2 DEGREASER
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## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**SUPPLIER:** Con-Treat ty Ltd  
**ADDRESS:** Unit 11, 80-82 Township Drive, Burleigh Heads, Queensland Australia  
**Trade Name:** **“WB2” DEGREASER**  
**TELEPHONE:** 1300 044 625  
**AH EMERGENCY TELEPHONE:** 13 1126 in Australia  
**Substance:** Water based cleaner  
**Creation Date:** NOV 2012  
**Product Code:** W cC

## SECTION 2 – HAZARDS IDENTIFICATION

- This product is **classified as HAZARDOUS (IRRITANT)** according to criteria of the National Occupational Health and Safety Commission Australia.
- This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code.
- This product is **classified as a Scheduled 5 Poison** according to the SUSMP.

**Approved NOHSC Classification** Xi - IRRITANT  
 R36/38 – Irritating to skin and eyes.  
 S(1/2) – Keep locked up and out of reach of children.  
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37/39 – Wear suitable gloves and eye/face protection.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

<b>UN Number</b>	None allocated	<b>ADG Classification</b>	None allocated
<b>Shipping Name</b>	None allocated	<b>ADG Subsidiary Risk</b>	None allocated
<b>Hazchem Code</b>	None allocated	<b>Packing Group</b>	None allocated
<b>SUSMP Classification</b>	S5 CAUTION		

### EMERGENCY OVERVIEW

<b>Colour</b>	Clear pink	<b>Odour</b>	Glycol
<b>Physical Description</b>	Liquid	<b>Viscosity</b>	Non-viscous liquid
<b>Major Health Hazards</b>	Irritant – eyes, skin, mucous membranes.		

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication “List of Designated Hazardous Substances” or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication “Approved Criteria for Classifying Hazardous Substances”.

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
Sodium hydroxide	1310-73-2	< 10% w/w	2 mg/m <sup>3</sup> Peak	Peak STEL 2 mg/m <sup>3</sup>
Ethylene glycol monobutyl ether	111-76-2	< 10% w/w	20ppm (96.9 mg/m <sup>3</sup> )	50 ppm (242 mg/ m <sup>3</sup> )
Disodium metasilicate	6834-92-0	< 10% w/w	not set	not set
Ingredients determined to be non-hazardous	Various	< 10% w/w	not set	not set
Water	7732-18-5	> 60% w/w	not set	not set

The **TWA** exposure value is the Time Weighted Average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The **STEL** (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least

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60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## SECTION 4 – FIRST AID MEASURES

<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities</b>	Normal washroom facilities.
<b>Skin contact</b>	Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.
<b>Eye contact</b>	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Inhalation</b>	Remove person to fresh air- avoid exposure. Obtain medical attention if symptoms occur.
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
<b>Aggravated Medical Conditions</b>	None known.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Water based. Not combustible. However if involved in a fire will emit toxic fumes.
<b>Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fires.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
<b>Flash Point</b>	None – does not support combustion.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	No HAZCHEM code.
<b>Occupational Release</b>	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water-courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.
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## Storage

Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Limits

National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:

**Time-weighted Average (TWA):** None established for specific product.

See **SECTION 3** for Exposure Limits of individual ingredients.

**Short Term Exposure Limit (STEL):** None established for specific product.

See **SECTION 3** for Exposure Limits of individual ingredients.

### Biological Limit Value

None established for product.

### Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.

### Personal Protective Equipment

This product is a hazardous (IRRITANT) cleaning liquid. Once diluted with 3 equal volumes of water (1:4 dilution), the product is no longer classified as hazardous according to the criteria of Worksafe Australia.

Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

### Eye Protection



The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

### Skin Protection



Wear chemical resistant gloves. Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

### Protective Material Types

Material suitable for detergent contact – Butyl rubber, Neoprene, PVC, and Nitrile.

### Respirator



Not required for normal and intended cleaning operations with adequate ventilation. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Non-viscous liquid	<b>Colour</b>	Clear pink
<b>Odour</b>	Glycol odour	<b>Specific Gravity</b>	1.03 – 1.06 @ 25 °C
<b>Boiling Point</b>	Approximately 100 °C	<b>Freezing Point</b>	Approximately 0 °C
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	Not flammable	<b>Flammable Limits</b>	None
<b>Water Solubility</b>	Miscible in all proportions	<b>pH</b>	13.3 – 13.7 neat
<b>Volatile Organic</b>	0 % v/v	<b>Coefficient of Water/Oil</b>	Not available

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## Compounds (VOC)

Viscosity

Not available

## Distribution

Odour Threshold

Not available

Evaporation Rate

Not available

Per Cent Volatile

Ca 80% v/v

## SECTION 10 – STABILITY AND REACTIVITY

### Chemical Stability

Stable at normal temperatures and pressure.

### Conditions to Avoid

None identified.

### Incompatible Materials

Reducing agents, oxidizing agents, acid.

### Hazardous

### Decomposition

Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.

### Products

### Hazardous Reactions

May be incompatible with acids.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### PRODUCT MIXTURE INFORMATION

#### Local Effects

Irritant: eye, skin, inhalation and ingestion.

#### Target Organs

Eyes, mucous membranes, skin.

### POTENTIAL HEALTH EFFECTS

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

#### Ingestion

##### short term exposure

Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the mouth, throat & abdomen; perforation of the gastrointestinal tract. This product containing ethylene glycol mono butyl ether may cause headache, dizziness, light-headedness, confusion, and passing out, and may damage the liver and kidneys on ingestion.

##### long term exposure

No information available. There have been no documented effects due to long-term exposure to sodium hydroxide.

#### Skin contact

##### short term exposure

Irritating to skin - may cause skin burns, severe irritation. Corrosion will continue until removed. Severity depends on the concentration and duration of exposure. Burns are not immediately painful; onset of pain may be minutes to hours. Skin contact with this product containing ingredient ethylene glycol monobutyl ether may cause central nervous system effects.

##### long term exposure

Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.

#### Eye contact

##### short term exposure

Corrosive to eyes; contact can cause corneal burns.

##### long term exposure

No information available.

#### Inhalation

##### short term exposure

Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation. Exposure to high concentrations of the product in liquid form or as a mist may lead to possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema. Aerosols of this product containing ingredient ethylene glycol monobutyl ether may cause central nervous system effects if inhaled.

##### long term exposure

No information available.

#### Carcinogen Status

##### NOHSC

No significant ingredient is classified as carcinogenic by NOHSC.

##### NTP

No significant ingredient is classified as carcinogenic by NTP.

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**IARC** No significant ingredient is classified as carcinogenic by IARC.  
**Medical conditions aggravated by exposure** Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

## CLASSIFICATION OF INDIVIDUAL INGREDIENTS

### Individual Ingredient Information

**NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical.**

**See SECTION 3 for actual proportions of ingredients present in this product.**

Ingredients	R-Phrases.
Disodium metasilicate	R34, R37
ethylene glycol mono butyl ether	R20/21/22, R36/38
Sodium Hydroxide	R35

### 100% DISODIUM METASILICATE

**Irritation Data** Hazardous in case of skin contact (corrosive), of ingestion (corrosive), of inhalation (lung irritant). Causes burns Eye: Risk of serious damage to eyes. Respiratory: Irritating to respiratory system. Sensitization: No sensitizing (30% w/w in a formulation).

250 mg/24 hour(s) skin-human : severe

250 mg/24 hour(s) skin-rabbit : severe

250 mg/24 hour(s) skin-guinea pig : moderate.

**Toxicity Data** 1153 mg/kg oral-rat LD50; 770 mg/kg oral-mouse LD50; 250 mg/kg oral-dog LDLo; 250 mg/kg oral-pig LDLo; 200 mg/kg intraperitoneal-guinea pig LDLo.  
Other toxicological information: The toxic effects of the product are caused by the alkalinity and not by substance specific corrosive nature of the product.

**Local Effects** Corrosive: inhalation, skin, eye, ingestion

**Target Organs** Skin, mucous membranes, eyes.

**Acute Toxicity Level** Moderately Toxic: ingestion

**Mutagenic Data** Gentoxicity: Not mutagenic (in vitro)

**Reproductive Effects Data** 15 gm/kg oral-rat TDLo 14 week(s) male week(s) pre pregnancy/14 week(s) post pregnancy/3 week(s) continuous; 9766 ug/kg subcutaneous-rat TDLo 1 day(s) male; 9766 ug/kg intratesticular-rat TDLo 1 day(s) male.

### 100% SODIUM HYDROXIDE

**Irritation Data** Corrosive to skin – can cause burns. Corrosive to eyes – can cause permanent injury and possible loss of sight. Inhalation of dusts or mists of the solution can result in respiratory irritation and possible corrosive effects.

**Toxicity Data** Intraperitoneal LD50 (mouse): 40mg/kg ; Oral lowest lethal dose (rabbit): 500mg/kg; Skin (rabbit): severe irritation 500mg/24H ; Eyes (rabbit): severe irritation 1mg/30sec rinse.

**Local Effects** Corrosive: skin, eye, inhalation (of aerosol) and ingestion.

**Target Organs** Skin, mucous membranes, eyes.

**Reproductive Effects** No available information.

**Acute Toxicity Level** Toxic: ingestion, skin, inhalation (of aerosol or dust).

**Mutagenic Data** No available information.

**Carcinogen Data** Not classified as a carcinogen by Worksafe Australia.

### 100% ETHYLENEGLYCOL MONO BUTYLETHER (2-BUTOXY ETHANOL)

**Irritation Data** 500 mg open skin-rabbit mild: 100mg eyes - rabbit severe: 100mg/24 hour(s) eyes – rabbit moderate.

**Toxicity Data** The lethal oral dose of ethylene glycols in humans is approximately 1.4 ml/kg, which would be equivalent to approximately 100 ml of 100% 2-butoxyethanol for a 70 kg person. LD50 Rat oral 1.48 g/kg, LD50 Mouse oral 1.2 g/kg, LD50 Rabbit oral 0.32g/kg, LD50 Guinea pig oral 1.2 g/kg, LD50 Rabbit dermal 400 mg/kg. Odour threshold Value : 0.10 ppm (detection), 0.35 ppm (recognition), IDLH Level : 700 ppm. 2-Butoxy Ethanol may damage the liver and kidneys.

**Local Effects** Irritant: inhalation, skin, eye.

**Target Organs** Blood, central nervous system, kidneys.

**Acute Toxicity Level** Toxic: inhalation, dermal absorption, ingestion.

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<b>Mutagenic Data</b>	A statistically significant increase in mutations not generally observed in cell cultures at any concentration for a range of tests.
<b>Reproductive Effects Data</b>	2-Butoxy Ethanol may damage the developing fetus. 2-Butoxy Ethanol may damage the testes (male reproductive glands). TCLo: ihl-rat 200 ppm/6H (6-15D preg), TCLo: ihl-rat 25 ppm/6H (6-15D preg), TDLo: orl-mus 9440 mg/kg (7-14D preg), TCLo: ihl-rbt 200 ppm/6H (6-18D preg), TCLo: ihl-rbt 100 ppm/6H (6-18D preg).
<b>Carcinogenicity</b>	Insufficient information.

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Fish toxicity</b>	None available for this specific product. Individual ingredients: The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Ecotoxicity: Fish: 96h - LC50 (Brachydanio rerio, OECD no. 203) : 3185 mg/l (pH 10.1) Daphnia: 48 h - EC50 (Daphnia magna): 4857 mg/l. Daphnia: 48 h - EC50 (Daphnia magna): 4857 mg/l
<b>Algae toxicity</b>	None available for this specific product.
<b>Invertebrates toxicity</b>	None available for this specific product.
<b>Toxicity to Bacteria</b>	None available for this specific product. Individual ingredients: The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Bacteria: 48 h - EC 0 (Pseudomonas putida, OECD no. 209) > 1000mg/l (ph 7.9)
<b>OECD Biological degradation</b>	Individual components stated to be biodegradable. The following information relates to Sodium, Silicate, Solution, Molar > 3,2 concentration 35% (IUCLID). Environmental behaviour: Degradation abiotic: In aqueous solution of pH=< 9 the silicate is mineralized and precipitated. The maximum concentration of soluble silicates at this pH is 120 mg/l. Degradation Biotic: not applicable. Other information: The pH rise is responsible for the environmental effect on the aquatic life. If not neutralized, this product can be toxic for aquatic organism because of its alkalinity. pH >9 has a corrosive effect on fish (possibly causing death). pH >8.5 will result in destruction of algae.
<b>General</b>	Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Disposal</b>	To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.
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## SECTION 14 – TRANSPORT INFORMATION

<b>UN Number</b>	None allocated	<b>ADG Classification</b>	None allocated
<b>Shipping Name</b>	None allocated	<b>ADG Subsidiary Risk</b>	None allocated
<b>Hazchem Code</b>	None allocated	<b>Packing Group</b>	None allocated
<b>Packaging Method</b>	None allocated	<b>Special Provisions</b>	None allocated
<b>Segregation</b>	None allocated		



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## SECTION 15 – REGULATORY INFORMATION

### Labeling Details

#### HAZARD

Xi - IRRITANT

#### RISK PHRASES

R36/38 – Irritating to skin and eyes.

#### SAFETY PHRASES

S(1/2) – Keep locked up and out of reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 – Wear suitable gloves and eye/face protection.

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

#### SUSMP

S5 (SODIUM HYDROXIDE <5%)

Signal word: **CAUTION**

Cautionary

Statement/s: **KEEP OUT OF REACH OF CHILDREN  
DO NOT SWALLOW  
NOT TO BE TAKEN  
READ SAFETY DIRECTIONS**

#### First Aid:

(A)- For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

(G3) - If swallowed, DO NOT induce vomiting.

(E2) - If in eyes, hold eyelids apart and flush the eye continuously with running water.

Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

(S1)- If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

#### Warning:

(2)-Corrosive.

(10)-May produce severe burns.

(78)-Attacks skin and eyes.

#### Safety Directions:

(3)-Wear eye protection when mixing or using.

(5)-Wear protective gloves when mixing or using.

#### ADG Code

None allocated

#### AICS

All ingredients present on AICS.

## SECTION 16 – OTHER INFORMATION

### Acronyms

#### SUSMP

Standard for the Uniform Scheduling of Medicines and Poisons.

#### ADG Code

Australian Code for the Transport of Dangerous Goods by Road and Rail.

#### CAS Number

Chemical Abstracts Service Registry Number.

#### UN Number

United Nations Number.

#### R-Phrases

Risk Phrases.

#### HAZCHEM

An emergency action code of numbers and letters which gives information to emergency services.

#### NOHSC

National Occupational Health and Safety Commission.

#### NTP

National Toxicology Program (USA).

#### IARC

International Agency for Research on Cancer.

#### AICS

Australian Inventory of Chemical Substances.

#### TWA

Time Weighted Average

#### STEL

Short Term Exposure Limit

#### Literature References

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

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Australian Code For The Transport Of Dangerous Goods By Road And Rail – Seventh Edition.  
Standard for the Uniform Scheduling of Medicines and Poisons 2011.  
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]  
Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]  
Material Safety Data Sheets – individual raw materials – Suppliers.  
HSIS – Hazardous Substance Information System – National Worksafe Data Base.  
New Issue to standard: 2nd Edition [NOHSC:2011(2003)].

## Revision Information

### Note

### Contact Point

### Issue Date

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

Regulatory Affairs Manager. **Telephone** (07) 320 0

Nov 2012 **Supersedes Issue Date** OCT 2007

This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.