BRS AUSTRALIA PTY LTD Product: RED DOG DEGREASER CONCENTRATE

#### SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**SUPPLIER:** BRS AUSTRALIA PTY LTD

ADDRESS: P.O. Box 1071 Ashmore City, QLD 4214

Trade Name: RED DOG DEGREASER CONCENTRATE

**TELEPHONE:** 07 3807 7400 07 3807 7491 FAX: AH EMERGENCY TELEPHONE: 13 1126 in Australia ABN: 19 158 969 754 H.D. Degreaser Substance: Liquid **Product Use: JUNE 2014 Creation Date: JUNE 2104 Revision Date:** 

Product Code: RDHDD (Various

Sizes)

### **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 Poison S5 according to the SUSDP.

Approved Worksafe Xi - IRRITANT

Classification R36/38 – Irritating to skin and eyes.

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

S24/25 - Avoid contact with skin and eyes.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show

the label whenever possible).

S46 - If swallowed, seek medical advice immediately and show this container or label.

UN Numbernone allocatedADG Classificationnone allocatedShipping Namenone allocatedADG Subsidiary Risknone allocatedHazchem Codenone allocatedPacking Groupnone allocated

SUSDP Classification S5 (ALKALINE SALTS)

**EMERGENCY OVERVIEW** 

**IRRITANT** 

**Colour** Green **Odour** Faint

Physical Description Liquid Viscosity non-viscous liquid

Major Health Hazards None known

### **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 dodecylbenzene sulphonate	25155-30-0	< 10% w/w	not set	not set
Disodium metasilicate	6834-92-0	< 10% w/w	not set	not set
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> )
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 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.

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#### **SECTION 4 – FIRST AID MEASURES**

**Scheduled Poisons** 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 03 474 7000).

**First Aid Facilities** 

Normal washroom facilities.

Skin contact

Inhalation

Wash skin with water. Remove contaminated clothing and wash before re-use. Seek

medical advice (e.g. doctor) if irritation, burning or redness develops.

Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be Eye contact

held open. Seek medical advice (e.g. ophthalmologist).

Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious Ingestion

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). Remove victim to fresh air away from exposure - avoid becoming a casualty. Seek

medical advice (e.g. doctor).

**Advice to Doctor** 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.

**Aggravated Medical** 

**Conditions** None known.

# **SECTION 5 – FIRE FIGHTING MEASURES**

Fire and Explosion

**Hazards** 

Water based. Not combustible. However if involved in a fire will emit toxic fumes.

**Extinguishing Media** Fire Fighting

Use an extinguishing media suitable for surrounding fires.

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. Evacuate area - move upwind of fire.

**Flash Point** Not combustible.

### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Emergency** 

No HAZCHEM code. **Procedures** 

**Occupational Release** 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. For large spills, or tank rupture, stop leak if safe to do so. 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**

Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Handling

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 Engineering Controls Personal Protective None established for product. Use in a well-ventilated area

This product is classified as hazardous (IRRITANT) according to the criteria of Worksafe Australia. Upon dilution with an equal volume of water, (50:50) the product is classed as non-hazardous.

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** 

**Equipment** 



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.

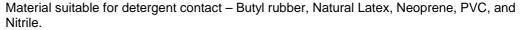
**Skin Protection** 



Gloves are recommended for sensitive skin.

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

Protective Material Types 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				
Physical State	Liquid	Colour		green
Odour	faint odour	Specific	Gravity	1.05 - 1.08 @ 25 °C
<b>Boiling Point</b>	Approximately 100 °C	Freezing	g Point	Approximately 0 °C
Vapour Pressure	Not available	Vapour	Density	Not available
Flash Point	Not flammable	Flamma	ble Limits	None
Water Solubility	Miscible in all proportions	рН		12.8 neat
Volatile Organic		Coeffici	ent of Water/Oil	
Compounds (VOC)	approx 7.0 % v/v	<b>Distribution</b> Not available		Not available
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Viscosity	Not available	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** May corrode mild steel, copper, aluminium and zinc fittings.

Incompatible Materials Oxidizing agents and reducing agents.

Hazardous Product can decompose on combustion (burning) to form Carbon Monoxide, Carbon

**Decomposition** Dioxide, and other possibly toxic gases and vapours.

Hazardous Reactions None known.

### **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### PRODUCT MIXTURE INFORMATION

**Local Effects** Mild irritant: eye, skin, inhalation and ingestion.

Target Organs Eyes, mucous membranes, skin.

POTENTIAL HEALTH EFFECTS

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.

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. 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 undiluted solutions may induce eczematoid

dermatitis.

**Eve contact** 

**short term exposure** Eye contact may cause stinging, blurring, tearing, pain.

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.

No information available.

long term exposure Carcinogen Status

ong term exposure no information avail

NOHSC
NO significant ingredient is classified as carcinogenic by NOHSC.
NTP
No significant ingredient is classified as carcinogenic by NTP.
IARC
No significant ingredient is classified as carcinogenic by IARC.
Medical conditions aggravated by exposure
No information available.

Medical conditions aggravated by exposure CLASSIFICATION OF INDIVIDUAL INGREDIENTS

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.

Sodium dodecylbenzene sulphonate R36/38 when >20%

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Disodium metasilicate Ethylene glycol monobutyl ether Non hazardous ingredients 100%

R36/38 when >5% R22 when > 25% None allocated

100% Sodium dodecylbenzenesulfonate

Irritation Data 20 mg/24 hour(s) skin-rabbit moderate; 250 ug/24 hour(s) eyes-rabbit severe; 1 percent

eves-rabbit severe.

Toxicity Data 438 mg/kg oral-rat LD50; 1330 mg/kg oral-mouse LD50; 105 mg/kg intravenous-mouse

LD50; 3040 mg/kg/30 day(s) continuous oral-rat TDLo; 5 gm/kg/30 day(s) intermittent

oral-mouse TDLo.

Local Effects Irritant: inhalation, skin, eye.

Target Organs Eyes, skin, mucous membranes.

Acute Toxicity Toxic: ingestion.

Mutagenic Data

Reproductive Effects

No available information.

No available information.

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 OrgansSkin, mucous membranes, eyes.Acute Toxicity LevelModerately Toxic: ingestionMutagenic DataGentoxicity: Not mutagenic (in vitro)

**Reproductive**15 gm/kg oral-rat TDLo 14 week(s) male week(s) pre pregnancy/14 week(s) post

**Effects Data**13 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% Ethylene glycol mono butyl ether (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 OrgansBlood, central nervous system, kidneys.Acute Toxicity LevelToxic: inhalation, dermal absorption, ingestion.

Mutagenic Data

A statistically significant increase in mutations not generally observed in cell cultures at

any concentration for a range of tests.

**Reproductive Effects** 

Data

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).

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**Carcinogenicity** Insufficient information.

#### **SECTION 12 – ECOLOGICAL INFORMATION**

Fish toxicity 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

Algae toxicity
Invertebrates toxicity

**Toxicity to Bacteria** 

None available for specific product. None available for specific product.

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)

OECD Biological degradation

Individual components stated to be readily biodegradable. No hydrocarbons present in

he product.

General 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**

**Disposal** 

The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. To dispose of larger 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. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.

# **SECTION 14 – TRANSPORT INFORMATION**

**Transport Information** 

**Road & Rail Transport** 

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road or Rail.

**Marine Transport** 

Not classified as a Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport** 

Not classified as a Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by Air.

### **SECTION 15 – REGULATORY INFORMATION**

AICS All ingredients present on AICS.

**Labeling Details** 

HAZARD Xi - IRRITANT

**RISK PHRASES** R36/38 – Irritating to skin and eyes.

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

S24/25 - Avoid contact with skin and eyes.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show

the label whenever possible).

S46 - If swallowed, seek medical advice immediately and show this container or label.

SUSDP S5 (ALKALINE SALTS)

ADG Code None allocated

### **SECTION 16 – OTHER INFORMATION**

**Acronyms** 

**SUSDP** Standard for the Uniform Scheduling of Drugs 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)]

Australian Code For The Transport Of Dangerous Goods By Road And Rail – Sixth

Edition

Standard for the Uniform Scheduling of Drugs and Poisons.

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.

**Revision Information** New Issue to standard: 2nd Edition [NOHSC:2011(2003)].

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

Contact PointRegulatory Affairs Manager.Telephone07 3807 7400Issue DateJUNE 2014Supersedes Issue Date1st Issue

This MSDS 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 MSDS 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.

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