

## DUO

### HEAVY DUTY DETERGENT

#### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** DUO

**Other Names:** None.

**Recommended Use:** Multipurpose Commercial Detergent.

**Product Code:** DUO05 (5L) – DUO25 (25L)

Company: CCS Chemicals (Aust) Pty Ltd. (A.C.N. 063 274 279)

Address: 263 – 265 Huntingdale Road, Huntingdale, Vic. 3166.

Telephone: 03 9544 9911

Facsimile: 03 9544 9922

**Emergency Telephone Number:**

Poisons Information Centre **131 126** (24 hours a day)

#### SECTION 2: HAZARDS IDENTIFICATION

**Not classified as hazardous by the criteria of NOHSC Australia.  
Not classified as Dangerous Goods according to the Australian  
Code for the Transport of Dangerous Goods by Road and Rail.**

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Proportion
Sodium Trioxosilicate	6834-92-0	<10%
Non hazardous component(s)		to 100%

#### SECTION 4: FIRST AID MEASURES

**Eye (Contact):** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek medical attention.

**Skin (Contact):** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wash contaminated clothing before reuse.

**Inhalation (Breathing):** Remove to fresh air. Apply artificial respiration if not breathing. Seek immediate medical attention.

**Ingestion (Swallowing):** For advice, contact a Poisons Information Centre (Phone e.g. Australia 131 126; New Zealand 0800 764 766) or a Doctor (at once). If swallowed do NOT induce vomiting. Wash out mouth with water then have victim drink copious amounts of water to dilute material in stomach. Seek medical attention.

**Advice to Doctor:** Treat symptomatically as for strong alkalis.

**First Aid Facilities:** Eye wash station and clear running water.

**Additional Information:** No aggravated medical conditions are known to be caused by exposure to this product.

#### SECTION 5: FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Solution does not burn. Use extinguishing media suited to the materials that are burning. E.g. foam, dry chemical, CO<sub>2</sub> or water spray. Do NOT use water jets.

**Hazards from Combustion Products:** Non-combustible. Will not support combustion. May react with aluminium, zinc, tin and other alloys evolving hydrogen gas which can form an explosive mixture with air.

**Precautions for Fire Fighters and Special Protective Equipment:**

Fire fighters must wear full protective clothing including self contained breathing apparatus (S.C.U.B.A.) and chemical splash suit if risk of exposure to vapour or products of combustion. Determine the need to evacuate or isolate the area according to your local emergency plan. Keep containers cool with water spray.

**Additional Information:** Hazchem Code – Not applicable.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES



**Emergency Procedure:** SAA/SNZ HB76: Dangerous Goods – Initial Emergency Response Guide – Not applicable.

**Spills / Clean Up:** Can produce very slippery surfaces. Clean up personnel should wear full protective equipment (refer to SECTION 8). Restrict access to area until completion of cleanup. Stop leak if safe to do so. Contain spill with absorbent material such as sand, vermiculite or other inert material. Prevent spill entering sewers or waterways. Collect and dispose of spilled material according to local

regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the outside of the spill to the centre or from the edge of the room to the centre.

#### SECTION 7: HANDLING AND STORAGE



**Precautions for Safe Handling:** Any non-authorized use of this product may result in personal injuries or property damage. Wear appropriate (PPE) protective equipment (refer to SECTION 8) when handling undiluted product, to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet. Contact CCS Chemicals sales representative for advice when using this product for any application other than that outlined on the label or fact sheet. Do NOT mix with any other chemical.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area, out of direct sun light and away from incompatible materials (as described in SECTION 10). Store in original tightly sealed labelled containers at all times.

#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards** – Source: National Exposure Standards for Atmospheric Contaminants in the occupational environment [NOHSC: 1003].

Ingredient	CAS No	ES-TWA	ES-STEL
Not available			

**Biological Limit Values:** None allocated.

**Engineering controls:** Not normally required.

**Personal Protective Equipment (PPE):**



**Eye/face protection** – Safety glasses or chemical resistant goggles should be worn to prevent eye contact when handling undiluted product, working above the face or any risk of splash back exists.

**Skin protection** – Use rubber gloves to prevent skin contact. Wear clothing and footwear suitable to prevent skin contact.

**Respiratory protection** – A respirator is not usually necessary. If the product is being used in a confined area where mist is a problem, use an approved respirator with a suitable replaceable vapour/mist filter.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear green liquid

**Odour:** Perfumed

**pH:** 12.0 (1% solution 10)

**Specific Gravity:** 1.02 +/- 0.005 @ 20°C

**Vapour Pressure:** 24 mm Hg @ 20°C

**Vapour Density:** Not Available

**Boiling Point:** 100°C

**Freezing Point:** 0°C

**Solubility:** Soluble in water.

**Flashpoint:** Not Applicable

**Upper and Lower Flammable (explosive) Limits in air:** Not Applicable

**Ignition Temperature:** Not Applicable

#### SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal ambient storage conditions.

**Conditions to avoid:** Avoid extreme temperatures (store above 10°C and below 30°C) and direct sunlight. Protect against physical damage.

**Incompatible materials:** Avoid contact with acids. Do not mix with other chemicals.

**Hazardous decomposition products:** Thermal decomposition may result in the release of toxic and/or irritating fumes.

**Hazardous reactions:** Exothermic reaction with acid.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### ACUTE HEALTH EFFECTS

**Swallowed:** May cause burns to the mouth and throat, pain in the stomach, difficulty in breathing, nausea, vomiting, diarrhoea, and convulsions.

**Eye:** A moderate eye irritant. When splashed in the eyes, concentrated solutions can cause burns, pain and conjunctivitis.

**Skin:** Concentrated solutions will cause redness itchiness and irritation.

**Inhalation:** May cause irritation of the nose and respiratory system.

##### CHRONIC HEALTH EFFECTS

**Swallowed:** May be fatal if swallowed.

**Eye:** Can cause eye damage.

**Skin:** Repeated or prolonged exposure may cause allergic contact dermatitis.

**Inhalation:** None known.

##### TOXICITY DATA

**LD50 (Acute Oral Toxicity):** Not available.

**LD50 (Acute Dermal Toxicity):** Not available.

**LC50 (Acute Inhalation Toxicity):** Not available.

**Carcinogenicity:** Not available.

#### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Avoid contaminating waterways. Not expected to be ecotoxic after dilution.

**Persistence / Degradability:** Not available.

**Mobility:** Not available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal of Containers:** Rinse empty containers thoroughly with water and place in trash collection.

**Disposal Method:** Dispose of in accordance with Local, State and Federal regulations at an approved waste disposal facility, or through a licensed chemical waste disposal company.

#### SECTION 14: TRANSPORT INFORMATION

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

**UN Number:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class and subsidiary Risk:** Not applicable.

**Packaging Group:** Not applicable.

**Special Precautions for User:** Not applicable.

**Hazchem Code:** Not applicable.

#### SECTION 15: REGULATORY INFORMATION

**Poisons Schedule (SUSDP):** Schedule 5 – CAUTION

Keep out of reach of children. Read safety directions before opening or using. Do not swallow. Strongly alkaline. Avoid contact with skin. Avoid contact with eyes.

#### SECTION 16: OTHER INFORMATION

**Date of preparation:** 28<sup>th</sup> June 2007

For further information on any details described in this MSDS, please contact:

Technical Department – Technical Manager

CCS Chemicals (Aust) Pty Ltd

Head Office: (03) 9544 9911

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#### END OF MSDS