

# Material Safety Data Sheet

Firex Distribution (Australia) Pty Ltd  
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Product Name: **Tridol "S" 6% AFFF**

Infosafe No™: LPYLP  
Issue Date: November 2009

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Identification:** TRIDOL S6  
**Manufacturer/Supplier:** Kidde Australia Pty Ltd,  
A UTC Fire & Security Company  
314 Boundary Road,  
DINGLEY. VICTORIA. 3172.  
1800 672 171  
**Application and Use:** Fire Fighting Foam Concentrate

## 2. HAZARDS IDENTIFICATION

**Hazard:** HAZARDOUS SUBSTANCE.  
**Classification:** NON-DANGEROUS GOODS  
Hazard classification according to the criteria of HOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase:** R36 Irritating to eyes.  
**Safety Phrase:** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39 Wear eye/face protection.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients:** Diethylene glycol monobutyl ether  
**CAS:** 112-34-5  
**Proportion:** 1 – 15%  
Hydrocarbon surfactants, unspecified  
**CAS:** Proprietary  
**Proportion:** 1 – 5%  
Fluorsurfactants  
**CAS:** Proprietary  
**Proportion:** 1 – 5%  
Other ingredients determined not to be hazardous, including water  
**Proportion:** To 100%

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove the source of contamination or the affected person to fresh air. Ensure airways are clear. Apply artificial respiration if not breathing. Seek medical attention.
<b>Ingestion:</b>	Do NOT induce vomiting. Wash out mouth with water. Do not give anything by mouth to an unconscious person. Seek medical attention.
<b>Skin:</b>	If skin or hair contact occurs remove contaminated clothing and wash contaminated skin and hair with plenty of soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.
<b>Eye:</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.
<b>First Aid Facilities:</b>	Eye wash and normal washroom facilities.
<b>Advice to Doctor:</b>	Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

<b>Suitable: Extinguishing Media Hazards from Combustion Products:</b>	Use extinguishing media suitable for surrounding environment.  Under fire conditions this product may emit toxic and / or irritation fumes including oxides of metals and sulphur, hydrogen fluoride, organic pyrolysis products, carbon monoxide and carbon dioxide.
<b>Specific Hazards:</b>	Non-combustible liquid concentrate used in fire fighting. The product contains a substantial amount of water. Dried residue may burn once aqueous component has been driven off. Containers exposed to heat may rupture / explode.
<b>Precaution in connection with Fire:</b>	Fire fighters should wear full protective clothing and self-contained breathing apparatus. Water spray may be used to keep fire exposed containers cool.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency procedures:</b>	Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. If possible contain the spill, prevent run-off into drains and waterways. Place inert, non-combustible absorbent material onto spillage. Collect spilled material with clean non-sparking tools and seal in labelled drums for disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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#### 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Wear appropriate designed personal protective equipment designed for use in fire fighting situations to prevent exposure when using product. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
<b>Conditions for Safe Storage:</b>	Store in a cool, dry well-ventilated area away from heat and out of direct sunlight. For best results, the product should be stored in sealed, original containers above 0°C and below 40°C.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>National Exposure Standards:</b>	No exposure standards have been established for the mixture by the National Occupational Health & safety Commission (NOHSC). However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and / or allergic reactions and should be kept to the least possible levels.
<b>Biological Limit Values:</b>	No biological limit allocated.
<b>Engineering Controls:</b>	Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.
<b>Respiratory Protection:</b>	If engineering controls are not effective in controlling airborne exposure then respiratory protection should be used. Reference should be made to Australian / New Zealand Standards AS / NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS / NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
<b>Eye Protection:</b>	Safety glasses with side shields, chemical goggles, or face shield as appropriate required. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian / New Zealand Standards AS / NZS 1337 – Eye Protectors for Industrial Applications.
<b>Head Protection:</b>	Impervious gloves recommended such as laminated film, neoprene, nitrile or PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be mad to AS / NZS 2161 Occupational protective gloves – Selection, use and maintenance.
<b>Body Protection:</b>	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist, including chemical resistant apron where clothing is likely to be contaminated. Industrial clothing should conform to the specifications detailed in AS / NZS 2919; Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pale yellow liquid.
<b>Odour:</b>	Organic odour.
<b>Melting Point:</b>	-2°C
<b>Boiling Point:</b>	100°C
<b>Solubility in Water:</b>	Miscible
<b>Specific Gravity:</b>	1.01
<b>pH Value:</b>	6.5 – 8.0 (as supplied)
<b>Vapour Pressure:</b>	Not available.
<b>Vapour Density (Air=1)</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Flammability:</b>	Non-flammable.
<b>Auto-Ignition Temperature:</b>	Not applicable.
<b>Flammable Limits-Lower:</b>	Not applicable
<b>Flammable Limits-Upper:</b>	Not applicable.

## 10. STABILITY / REACTIVITY

<b>Chemical Stability:</b>	Stable under normal circumstances of storage and handling.
<b>Conditions to Avoid:</b>	Extremes of temperature.
<b>Incompatible Materials:</b>	Not available
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may result in the release of toxic and / or irritating fumes including oxides of metals and sulphur, hydrogen fluoride, organic pyrolysis products, carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information:</b>	No toxicity data are available for this specific product. The available data for the ingredients are as follows; For Diethylene glycol monobutyl ether: LD50 (Oral, Rat): 5660 mg/kg LD50 (Dermal, Rabbit): 2700 mg/kg
<b>Inhalation:</b>	Vapour may be irritating to mucous membranes and respiratory tract.
<b>Ingestion:</b>	May cause irritation if swallowed.
<b>Skin:</b>	May be irritating to the skin. May cause redness and itching.
<b>Eye:</b>	Causes irritation to eyes. Eye contact may cause stinging, blurring and tearing.
<b>Chronic Effects:</b>	Repeated or prolonged exposure may produce conjunctivitis.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Aquatoxity Rainbow Trout LC50 (3hrs) >1800 ppm LC50 (6hrs) >1600 ppm LC50 (24hrs) 1300 ppm LC50 (48hrs) 1300 ppm LC50(72hrs) 1300 ppm LC50(96hrs) 1300 ppm
<b>Persistence:</b>	Biodegradable.
<b>Degradability:</b>	COD 0.39 gg - 1 BOD 0.27 (69%) (7 days) 0.34-0.37 (86-94%) (21 days) 0.34-0.36 (87-93%) (28 days)
<b>Mobility:</b>	Not available.
<b>Bioaccumulative Potential:</b>	Bioaccumulation is unlikely to occur due to metabolism and excretion.
<b>Environ. Protection:</b>	Do not allow product to enter drains, waterways or sewers.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Consideration:</b>	Dispose of waste according to all applicable local and national regulations.
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## 14. TRANSPORT INFORMATION

<b>Transport information:</b>	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. REGULATORY INFORMATION

**Regulatory Information:** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Posions Schedule:** Not Scheduled.

**Hazard /catefirt:** Irritant

## 16. OTHER INFORMATION

**Date of preparation or last  
Revision of MSDS:** MSDS Created: November 2009

**Other information:**

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the proposed of health, safety and environmental requirements only. It should no therefore be construed as guaranteeing any specific property of the product.

End MSDS