



SAFETY DATA SHEET

PRODUCT NAME **ANSULEX LOW PH - LIQUID FIRE SUPPRESSANT**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name WORMALD NZ LTD
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Emergency 0800 243 622 [0800CHEMCALL]
Synonym(s) LIQUID FIRE SUPPRESSANT • ANSULEX LOW PH
Use(s) FIRE EXTINGUISHING AGENT • FIRE FIGHTING
MSDS Date 16 June 2008

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES (CLASSIFICATION) REGULATIONS 2001 HAZARD

CLASSIFICATION

6.3B Substances that are mildly irritating to the skin.
6.4A Substances that are irritating to the eye.

HAZARD STATEMENTS

H316 Causes mild skin irritation.
H320 Causes eye irritation.

PRECAUTIONARY STATEMENTS

P103 Read label before use.
P104 Read Safety Data Sheet before use.
P264 Wash hands thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation occurs: Get medical advice/ attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
POTASSIUM NITRITE	7758-09-0	0.05%
NON HAZARDOUS INGREDIENTS	Not Available	20-25%
POLYPEPTIDE(S)	Not Available	1.4%
FLUORESCHEIN SODIUM	518-47-8	0.011%
WATER	7732-18-5	Remainder

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk exists. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poisons Information Centre or a doctor (at once). If swallowed, do not induce vomiting.
Medical Advice	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.
Fire and Explosion	Non flammable. Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Non flammable.
Hazchem Code	None allocated.

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways. Caution: Slippery when spilt.
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7. STORAGE AND HANDLING

Storage	Store in an area designated for fire extinguishers. Signs should indicate fire extinguisher location. Extinguishers should be kept cool and dry and should not come into contact with any chemicals. Inspect regularly to ensure extinguishers are in good working order. Also store removed from reactive metals, electrically energised equipment and any material reactive with water.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Stds	No exposure standard(s) allocated.
Engineering Controls	Do not inhale vapours/fumes/smoke. When handling this product, maintain adequate natural ventilation where practicable. In a fire situation, ventilation may be difficult to control. Contact emergency personnel.
PPE	Wear splash-proof goggles and rubber or PVC gloves. In fire situations wear a Self Contained Breathing Apparatus (SCBA) and appropriate fire fighting equipment. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) Respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR YELLOW LIQUID	Solubility (water)	SOLUBLE
Odour	MILD ODOUR	Specific Gravity	NOT AVAILABLE
pH	NOT AVAILABLE	% Volatiles	NOT AVAILABLE
Vapour Pressure	0.9 mm Hg @ 25°C	Flammability	NON FLAMMABLE
Vapour Density	1.03 (Air = 1)	Flash Point	NOT RELEVANT
Boiling Point	113°C	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	0.13 (Butyl Acetate = 1)	Autoignition Temperature	NOT AVAILABLE
Density	1.33 (Water = 1)		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended conditions of storage.
Conditions to Avoid	No known conditions to avoid.
Material to Avoid	Compatible with most commonly used materials.
Decomposition	May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.
Polymerization	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity - low irritant. This product may only present a hazard with direct eye contact, prolonged and repeated skin contact or with vapour or fume inhalation at high levels. In a fire situation use appropriate safe work practices to avoid vapour or fume inhalation. Where necessary, trained fire or emergency personnel should be contacted.
Eye	Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Low irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing. Under extreme temperatures in a fire situation toxic by-products associated with this extinguishing agent and surrounding materials may also be generated.
Skin	Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.
Ingestion	Low toxicity. Ingestion may result in gastrointestinal irritation, nausea and vomiting. However, due to product form ingestion is considered unlikely.
Toxicity Data	POTASSIUM NITRITE (7758-09-0)FLUORESCIEIN SODIUM (518-47-8) LC50 (Inhalation): 85 g/m ³ /2 hours (mouse) LD50 (Ingestion): 4738 mg/kg (mouse) LD50 (Ingestion): 200 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Export the substance from New Zealand as waste ; or Treat the substance so that it is no longer a hazardous substance ; or Discharge the substance into the environment so that, after reasonable mixing, the concentration of the substance in an environmental medium does not exceed any relevant tolerable exposure limit and/or environmental exposure limit set for the substance or any of its components.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005

NZS 5433:2007, UN, IMDG OR IATA

Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Approval Code HSR002573
Group Name Fire Fighting Chemicals Group Standard 2006
HSNO Controls Refer to the ERMA website for more information: www.ermanz.govt.nz

16. OTHER INFORMATION

Additional Information **ABBREVIATIONS:**
ADB - Air-Dry Basis. BEI - Biological Exposure Indice(s) CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds. CNS - Central Nervous System. EINECS - European INventory of Existing Commercial chemical Substances. IARC - International Agency for Research on Cancer. M - moles per litre, a unit of concentration. mg/m³ - Milligrams per cubic metre. NOS - Not Otherwise Specified. NTP - National Toxicology Program. OSHA - Occupational Safety and Health Administration. pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). ppm - Parts Per Million. RTECS - Registry of Toxic Effects of Chemical Substances. TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this SDS report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Reviewed by Responsible Care NZ 15 August 2013

End of Report