

Section 1 - Identification of Chemical Product and Company

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Trade Name: Nuturf Driftex

Product Use: Tank mixture adjuvant to improve efficiency of agricultural pesticides and reduce spray drift

Creation Date: February 2008

Section 2 - Hazards Identification

Statement of Hazardous Nature

CLASS C2, Combustible Liquid

This product is not classified as hazardous to health according to the criteria of ASCC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous according to criteria of Worksafe Australia.

Safety Phrases: Not Hazardous according to criteria of Worksafe Australia. S24 Avoid contact with skin

SUSDP Classification: N/A

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: Amber coloured liquid

Odour: Mild amine odour

Major Health Hazards: No significant risk factors have been found for this product.

Potential Health Effects

Inhalation: Prolonged inhalation of mists may produce respiratory irritation.

Skin Contact: May lead to mild irritation on repeated or prolonged exposure.

Eye Contact: May cause mild irritation to eyes.

Ingestion: No information available. May cause nausea and vomiting.

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC at stated concentration.

NTP: No significant ingredient is classified as carcinogenic by ASCC at stated concentration.

IARC: No significant ingredient is classified as carcinogenic by ASCC at stated concentration.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc.%	TWA (mg/m3)	STEL (mg/m3)
Blend of vegetable oils and Polyoxyethylated surfactants	not set	100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the 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.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: If vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists for more than about 30 minutes, seek medical advice

Skin Contact: Wash affected areas with copious amounts of water until chemical is removed. Remove all contaminated clothing and launder before re-use. If in doubt obtain medical advice.

Eye Contact: Immediately irrigate with copious amounts of lukewarm, gently flowing water for 15 – 20 minutes or until the product is removed or irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: Give plenty of water to drink, seek medical advice.

Notes to Doctor: Treat symptomatically

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Extinguishing Media: Will burn if involved in a fire. Use water, foam, carbon dioxide or dry powder

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or combustion products.

Flash point: >150°C

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Autoignition temperature: No data

Flammability Class: C2 Combustible Liquid

Section 6 - Accidental Release Measures

Accidental release: If material is spilled, keep unauthorised personnel away, isolate hazard area and avoid contact with spilled product. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator.

In the event of a major spill, prevent spillage from entering drains or water courses. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Section 7 - Handling and Storage

Classified as a Class 2 Combustible Liquid for the purposes of storage and handling.

Handling: Check Section 8 of this MSDS for details of personal protective measures, and ensure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in a cool, dry place away from children and animals or foodstuffs. Containers should be kept closed in order to minimise contamination. Keep away from possible ignition sources, extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits:	TWA (mg/m³)	STEL (mg/m³)	ADI	NOEL
	not set	not set	not set	not set

ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: Avoid high mist concentration and provide local exhaust ventilation where necessary.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: Wear PVC gloves to prevent skin contact. Wear overall and long sleeves to prevent contact

Respirator: Use P2 type canister respirator where mist is a problem

Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour: Amber coloured liquid

Odour: Mild amine odour

Boiling Point: No data

Melting Point: N/A

Volatiles: No data

Vapour Pressure: No data

Vapour Density: No data.

Bulk Density 0.93

Water Solubility: Disperses

pH: 6 - 8

Volatility: No data.

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water distribution: No data

Flash Point >150°C

Autoignition temp: No data

Section 10 - Stability and Reactivity

Reactivity: This product is stable under normal temperatures and pressures, when stored and handled in accordance with this MSDS

Conditions to Avoid: Store away from ignition sources, heat or fire, keep away from strong oxidising agents

Incompatibilities: Incompatible with strong oxidising agents.

Fire Decomposition: Fire may produce fumes containing carbon monoxide

Polymerisation: Does not occur.

Section 11 - Toxicological Information

Oral LD₅₀ Not known but based on components, estimated LD50 (rat) >5000mg/Kg

Section 12 - Ecological Information

Environmental Effect: Rapidly biodegradable

Section 13 - Disposal Considerations

Disposal: This material is normally suitable for disposal at approved land waste site. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good for transport by road or rail. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety & Compensation Council
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]
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