

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name** Agridex® Non-Ionic Surfactant  
**Other names** None  
**Product codes and pack sizes** 4950223 (20 L)  
**Chemical group** Paraffins, esters  
**Recommended use** Surfactant / adjuvant for use with various pesticides  
**Formulation** Emulsifiable concentrate  
**Supplier** Bayer CropScience Pty Ltd ABN 87 000 226 022  
**Address** 391 - 393 Tooronga Road, East Hawthorn, Victoria 3123, Australia  
**Telephone** (03) 9248 6888  
**Facsimile** (03) 9248 6800  
**Website** [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
**Contact** Development Manager (03) 9248 6888  
**Emergency Telephone Number** 1800 033 111 – Orica SH&E Shared Services

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW HAZARDOUS SUBSTANCE – NON-DANGEROUS GOOD

**Hazard classification** Hazardous (National Occupational Health and Safety Commission - NOHSC)  
**Risk phrases** R45 – May cause cancer  
**Safety phrases** See Sections 4, 5, 6, 7, 8, 10, 12, 13  
**ADG classification** Not a "Dangerous good" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**SUSDP classification** Exempt (Standard for the Uniform Scheduling of Drugs and Poisons)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)
Paraffin base petroleum oil	[64742-56-9]	730
Polyol fatty acid esters and polyethoxylated polyol fatty acid ester emulsifier	-----	149

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

## 4. FIRST AID MEASURES

**If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.**

<b>Inhalation</b>	If inhaled and symptoms occur, seek immediate medical assistance. If breathing has stopped, start artificial respiration. Call for prompt medical attention.
<b>Skin contact</b>	Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if at all worried.
<b>Eye contact</b>	Rinse eyes immediately with clean water for at least 15 minutes. If irritation persists obtain medical aid.
<b>Ingestion</b>	Seek immediate medical attention. Do NOT induce vomiting.
<b>First Aid Facilities</b>	Provide eyewash and safety shower facilities in the workplace.
<b>Medical attention</b>	Low viscosity liquid – if swallowed may enter the lungs and cause lung damage. Excessive exposure may result in eye, skin or respiratory irritation. If this product is aspirated into the lungs it may cause chemical pneumonitis.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Carbon dioxide, foam, dry chemical, water fog
<b>Hazards from combustion products</b>	Combustion products may include carbon monoxide, sulphur oxides, aldehydes.
<b>Precautions for fire fighters</b>	Water or foam may cause frothing. Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Avoid spraying directly into containers. Keep unnecessary people away. Bund area to prevent contamination of water sources. Dispose of fire control water and spillage safely later.
<b>Hazchem code</b>	Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. The spill may be slippery. Extinguish or remove possible sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment as described in Section 8 - PERSONAL PROTECTION. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

## 7. HANDLING AND STORAGE

Handling	Keep out of reach of children. Avoid contact with eyes and skin. Do not inhale mists.
Storage	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Keep container tightly closed and do not allow water to be introduced to the contents of the container.
Flammability	Class C2 combustible liquid – flashpoint over 150° C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards NOHSC Occupational Exposure Limits for oil mist: TWA: 5 mg/m<sup>3</sup>

Definition:

*Exposure standard – Time Weighted Average (TWA)* means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Biological limit values None allocated

Engineering controls Control process conditions to avoid contact. Use local exhaust ventilation during manufacturing operations. Use in a well-ventilated area only, especially if mists are generated.

Personal Protective Equipment

- Safety goggles if exposure is likely
- Suitable work clothing to prevent skin contact
- Elbow-length PVC gloves
- If inhalation exposure is likely to exceed the exposure level above or ventilation is inadequate, an AS/NZS 1715/1716 approved respirator suitable for organic vapours should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow liquid
Odour:	Mild, bland petroleum
pH:	Not available
Vapour pressure:	Low
Vapour density:	> 2.0
Boiling point:	> 316 ° C
Freezing/melting point:	Not available
Solubility:	Emulsifies in water
Density:	Approximately 0.88 g/mL at 20° C
Flash Point:	Approximately 183° C – Cleveland open cup
Flammability (explosive) limits:	Not established
Auto-ignition temperature:	> 260° C
Partition coefficient (octanol/water):	Not available

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

## 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use.
Conditions to avoid	Extreme heat and high energy sources of ignition
Incompatible materials	Incompatible with strong acids and oxidising agents.
Hazardous decomposition products	Carbon monoxide, sulphur oxides, aldehydes on combustion.
Hazardous reactions	None known

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

Inhalation	Excessive exposure may result in respiratory irritation.
Skin contact	Prolonged contact may remove natural fats and oils from the skin. Excessive exposure may result in skin irritation.
Eye contact	Excessive exposure may result in eye irritation.
Ingestion	If swallowed, the material may enter the lungs and cause lung damage.

### ANIMAL TOXICITY DATA – *SIMILAR PRODUCTS*

#### Acute:

Oral toxicity	LD <sub>50</sub> rat: > 2000 mg/kg
Dermal toxicity	LD <sub>50</sub> rat: > 2000 mg/kg
Inhalation toxicity	Not available. Similar products showed low inhalation toxicity.
Skin irritation	Practically non-irritating (rabbit)
Eye irritation	Practically non-irritating (rabbit)
Sensitisation	Not expected to be sensitising based on results of tests with similar products.

#### Chronic:

Repeated or prolonged exposure to this product may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and / or granuloma formation. The base oil in this product is classified as a Category 2 carcinogen according to NOHSC.

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

## 12. ECOLOGICAL INFORMATION

Agridex poses a low a hazard to the environment. DO NOT contaminate streams, rivers or waterways with Agridex or the used containers.

**Ecotoxicity** No data available

**Environmental fate, persistence and degradability, mobility** Adsorption to sediment and soil can be expected. This product is expected to be inherently biodegradable. Bioaccumulation is unlikely due to the low water solubility of the product.

## 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers or product should not be burnt. Dispose of waste material via a reputable waste disposal contractor.

## 14. TRANSPORT INFORMATION

<b>UN number</b>	Not applicable
<b>Proper shipping name</b>	Not applicable
<b>Class and Subsidiary Risk</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>EPG</b>	Not applicable
<b>Hazchem code</b>	Not applicable
<b>Marine Pollutant</b>	No

## 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.  
Australian Pesticides and Veterinary Medicines Authority approval number: 41165  
See also Section 2.

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 7<sup>th</sup>, 2008

---

## 16. OTHER INFORMATION

**Trademark information**                      Agridex® is a Registered Trademark of Bayer.

**Preparation information**                      Replaces December 14, 2004 edition.  
Reasons for revision: Hazard classification, Risk phrases, Chronic toxicity.

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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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.

END OF MSDS