

MATERIAL SAFETY DATA SHEET

Improves water penetrating in non-wetting agricultural soils – for use with no till furrow sowing to improve germination and crop yield



S A C O A
growing technology

PAGE: 1 OF 5
SHEET REF: IRRIG2011
ISSUE: Jan 2011

Product Name: SACOA IRRIGATOR™ Banding Soil Wetter

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA CRITERIA

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SACOA IRRIGATOR™ Banding Soil Wetter
CHEMICAL FAMILY: Speciality soil wetting agent
SUPPLIER: SACOA Pty Ltd
ACN 089 114 090
1st Floor, 39 Stirling Hwy Nedlands WA 6009
PO Box 469
Claremont WA 6910
Telephone: (08) 9386 7666
Facsimile: (08) 9386 7866
EMERGENCY: Telephone: (08) 9386 7666 (Office hours)
Facsimile: (08) 9386 7866
After Hours: (0427) 522 726

2. COMPOSITION / INFORMATION ON INGREDIENTS

Recommended use: Soil wetting agent
Appearance: Clear viscous liquid

<u>Chemical Entity</u>	<u>CAS Number</u>	<u>Proportion (% weight/weight)</u>
Polyoxyalkylene glycol ether	9038-95-3	100%

This product is listed on the Australian Inventory of Chemical Substances (AICS)

3. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to health criteria of NOHSC Australia.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

4. FIRST AID MEASURES

- Ingestion:** Immediately rinse mouth with water. If swallowed do NOT induce vomiting. Give water to drink. Seek immediate medical assistance.
- Eye contact:** Irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation occurs seek medical advice. Wash contaminated clothing before re-use.
- Inhalation:** Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
- Note to physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards** Combustible liquid
- Fire fighting further advice:** Combustible liquid. On burning will emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.
- Suitable extinguishing media:** Water fog (or if unavailable fine water spray), foam, carbon dioxide, dry chemical powder.

6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal properly labelled drums for disposal. Wash area down with excess water.

If contamination of sewers or waterways has occurred advise the local emergency services.

7. HANDLING AND STORAGE

- Storage:** Store away from strong oxidising agents. Keep containers closed at all times – check regularly for leaks.
- Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

Engineering measures: Natural ventilation should be adequate where material is used at ambient temperatures. Use with local exhaust ventilation or while wearing organic vapour/particulate respirator if material is used at elevated temperatures. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Avoid eye and repeated or prolonged skin contact and inhalation of mist. Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour:	Clear viscous liquid		
Solubility:	Soluble in water, most alcohols, glycol ethers, and aromatic solvents. It is also soluble in the higher glycols but not in ethylene glycol. Insoluble in most aliphatic solvents.		
Specific gravity (20°C):	1.05	Pour point (°C):	-34
Relative vapour density (air=1):	N Av	Boiling point: (°C):	N Av
Vapour pressure (20°C):	< 0.0001kPa	Decomp. Point (°C):	N Av
Flash point (°C):	171	Sublimation point:	N App
Flammability limits (%):	N Av	pH (10% aqueous solution):	5-7
Fire point (°C):	285	Viscosity (20°C):	90cP
% Volatile by volume (water):	0.2	Evaporation rate (n-Butyl acetate=1):	N Av
Solubility in water:	N Av		

(Typical values only – consult specifications sheet)

N Av = Not available, N App = Not applicable

PLEASE NOTE THAT THE ABOVE TYPICAL PROPERTIES DO NOT CONSTITUTE A SPECIFICATION

10. STABILITY AND REACTIVITY

Stability (thermal, light, etc): Incompatible with strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are

Acute Effects

Ingestion:	No adverse effects expected, however large amounts may cause nausea and vomiting.
Eye contact:	Not expected to be an eye irritant. (2)
Skin contact:	Repeated or prolonged skin contact may lead to mild irritation. (2) Will have a degreasing action on the skin.
Inhalation:	Not expected to cause respiratory irritation, unless present in an aerosol or mist. (2) High concentrations of mist may be irritating to the upper respiratory tract. Where this material is used at elevated temperatures vapour may cause irritation to mucous membranes and respiratory tract.

Long Term Effects

No information available for this product.

Acute Toxicity / Chronic Toxicity

No LD50 (rat) data available for product, however based on a similar product¹:

Oral LD50 (rat):	> 2000mg/kg
Skin (rabbit):	slight/mild irritation

No significant adverse health effects arising from industrial experience over many years have been reported for Polyoxyalkylene Glycols (PAG). They have low vapour pressures and no adverse effects have been reported following exposure to vapour atmospheres at ambient temperatures. However sub-acute toxicity studies have shown that inhalation of aerosols of PAGs similar to IRRIGATOR™ induce toxic changes in the rat including congestion, haemorrhage, interstitial pneumonia and Type II pneumocyte hyperplasia; interstitial focal fibrosis after prolonged exposure. These changes may be less severe than higher molecular weight PAGs of similar composition.²

12. ECOLOGICAL INFORMATION

No environmental impact data found for this material, however based on a similar product³:

96 hr LC50 (rainbow trout):	> 1000mg/L
6 hr LC50 (Pseudomonas putida):	> 1000mg/L
Biological oxygen demand (BOD 28 DAY/COD) (OECD 301C):	3%
Dissolved Organic Carbon Removal (DOC removal) (OECD 301C):	0%

Avoid contaminating waterways

¹ Material Safety Data Sheet, 10/1992.

² Technical Report No. 55, "Pulmonary Toxicity of Polyalkylene Glycols," ECETOC, 12/1997.

³ Material Safety Data Sheet, 10/1992.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Based on available information, this material is not classified as hazardous according to health criteria of NOHSC Australia.

Poisons Schedule (Aust)/Toxic Substance (NZ): None allocated

16. OTHER INFORMATION

Material Safety Data Sheets are updated frequently. Ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since SACOA Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

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

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is available on request and presented on all product labels.

Prepared by: SACOA Pty Ltd – 1st Floor, 29 Stirling Hwy Nedlands WA 6009
Contact Point: Sales and Research Manager – 08 9386 7666