

SACOA

SPRAY ADJUVANT COMPANY OF AUSTRALIA PTY LTD

MATERIAL SAFETY DATA SHEET



Supplied as a water emulsifiable, narrow range, spray oil for use in combination with selective herbicides to improve their wetting and penetrating properties on plant leaf surfaces and other suitable applications only.

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SHEET REF: CSS 2001

ISSUE: April 2001

Product Name: SACOA CROP SHIELD SPRAY ADJUVANT

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA CRITERIA

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SACOA Crop Shield Spray Adjuvant

CHEMICAL FAMILY: Water emulsifiable petroleum oil, based on severely solvent-refined paraffinic mineral oil with aliphatic emulsifiers/surfactants.

PRODUCT CODE:

UN NUMBER: Not applicable

DANGEROUS GOODS CLASS: Not applicable

HAZCHEM CODE: Not applicable

POISON SCHEDULE NUMBER: Not applicable

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Generic composition: - Severely solvent-refined paraffinic mineral oils and aliphatic non-ionic emulsification additives.

<u>Ingredients determined hazardous to health</u>	<u>R Phrase</u>	<u>CAS Number</u>	<u>% w/w</u>
Natural alcohol ethoxylate	R38	68131-39-5	<5%
Ingredients determined not to be hazardous	-	-	to 100%

This product is not hazardous to health as defined by the Worksafe Australia criteria. See Section 15 for regulatory information.

3. HAZARDS IDENTIFICATION

**Product Name: SACOA CROP SHIELD SPRAY
ADJUVANT**

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Effects of overexposure: No significant effects expected. Ingestion in large quantities may cause nausea, sickness and diarrhoea.

Special hazards of product after use: The risk of skin disorders may be increased if product becomes contaminated.

4. FIRST AID MEASURES

Eye contact: Hold eyes open under running clean water for at least 15 minutes until any irritation subsides. If irritation persists, obtain medical attention.

Skin contact: Remove any contaminated clothing including shoes. Wash contact areas with soap and water at intervals dictated by good standards of industrial hygiene.

Inhalation: Not expected to be a problem. Remove to fresh air. If effects persist, seek prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING. Wash mouth out with water. Give 1 to 2 glasses of milk or water and obtain immediate medical attention showing this sheet.

Pressure injection: ALWAYS OBTAIN IMMEDIATE MEDICAL ATTENTION EVEN THOUGH THE INJURY MAY APPEAR MINOR.

Note to physicians: Treat symptoms with reference to specific health effects identified above and outlined in Section 11.

5. FIRE-FIGHTING MEASURES

Flash point °C, (PM Closed Cup): >180.0

Flammability: Not classified as flammable, but is inherently combustible.

Extinguishing media: Use foam; dry chemical powder or CO₂. Never use water.

Special fire fighting procedures: Water may cause boilover danger. Foam may cause frothing. Only use water to cool outsides of fire-exposed containers. Prevent run-off from entering drains, sewers, waterways etc.

Special protective equipment: For fires in enclosed areas, firefighters must wear self-contained breathing apparatus and eye protection.

Unusual fire and explosion hazards: None.

Flammability limits (% v/v in air): LEL: 1.5 UEL: 6.0

Products of combustion: Oxides of carbon, water vapour, unidentified organic compounds and dense irritating smoke.

6. ACCIDENTAL RELEASE MEASURES

- Notification procedures:** Report spills as required to appropriate authorities such as the local Environmental Health Officer or Fire Brigade. If spills are likely to enter any drain, waterway or groundwater, contact the Area Water Authority. In case of accident or road spill, contact the Police and Fire Brigade, and if appropriate the Area Water Authority.
- Environmental precautions:** Prevent spills from entering sewers, drains etc and contact with soil areas.
- Decontamination procedures:** Contain spill and absorb in earth, sand or other suitable inert absorbent material. Collect solids into a suitably labelled sealable container for disposal. Dispose of at an appropriate licensed waste disposal site in accordance with current applicable laws and regulations and product characteristics at time of disposal.
- Personal precautions:** Good standards of industrial and personal hygiene are recommended. See Section 8.

7. HANDLING AND STORAGE

- Handling:** Provide suitable mechanical equipment for handling drums and packaging. No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
- Storage:** Do not store in open or in unlabelled containers. Store undercover away from ignition sources, strong oxidising agents or flammable materials. Keep away from food and drink. Compatible with most common metals of construction; may soften certain rubbers - use resistant seals. A bunded storage area may be required.
- Storage temperature:** -10°C to 60°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- | Occupational Exposure Limits: | <u>Substance</u> | <u>8-hour TWA</u> | <u>STEL</u> | <u>Source/other information</u> |
|--------------------------------------|-----------------------------------|--------------------------|------------------------|--|
| | Severely refined mineral oil mist | 5 mg/m ³ | 10 mg/m ³ . | Occupational Exposure Limits (EH40) |
- Ventilation:** No special requirements under ordinary conditions of use and with adequate ventilation.
- Respiratory protection:** No special requirements under ordinary conditions of use and with adequate ventilation.
- Eye protection:** Normal industrial eye protection practices should be employed.
- Skin protection:** No special equipment required. However, good personal hygiene practices should always be followed. Suitable barrier creams may be helpful when prolonged and repeated skin contact with product is likely.
- Engineering controls:** Local exhaust ventilation is recommended when excessive product misting occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear pale yellow
Odour:	Mild
Density at 15°C (kg/L):	0.867
pH at 20°C (3%vol in tap water):	7.0 to 8.5
Vapour pressure at 20°C (mm Hg):	<0.01
Vapour density (air=1):	>2.0
Boiling point (°C):	>300
Pour point (°C):	-12
Flash point (closed cup) (°C):	>180.0
Auto-ignition temperature (°C):	>200.0
Flammability limits (%v/v in air):	LEL: 1.5 UEL: 6.0
Kinematic viscosity at 40°C (mm²/s):	21.5
Solubility in water:	Emulsifies in water to form a coarse milky white emulsion.

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

10. STABILITY AND REACTIVITY

Stability (thermal, light, etc):	The product is stable and not subject to polymerisation.
Conditions to avoid:	Avoid exposure to extreme heat.
Materials to avoid:	Incompatible with strong oxidising agents.
Hazardous decomposition products:	Oxides of carbon, water vapour and unidentified organic compounds with dense irritating smoke, when involved in a fire.

11 TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the product's components.

ACUTE TOXICOLOGY

Estimated oral LD₅₀ (rat): > 2000 mg/kg

HEALTH EFFECTS

On eyes:	Practically non-irritating. May cause temporary irritation and discomfort.
On skin:	Generally non-irritant on incidental contact. Excessive or prolonged skin contact may give rise to slight irritation. HIGH PRESSURE INJECTION INJURIES REQUIRE IMMEDIATE MEDICAL ATTENTION.
By inhalation:	Harmful concentrations of mists and/or vapours do not normally arise except where high temperatures or atomising systems are involved. High concentrations of mist may give rise to respiratory irritation.
By ingestion:	Practically non-toxic. Ingestion of large quantities may cause nausea, sickness and diarrhoea.

CHRONIC TOXICOLOGY

SUMMARY:	No hazard anticipated, since the base oils used in this product are severely solvent refined. No data is available to indicate the product or components present at greater than 1% are chronic health hazards.
OTHER:	Products, which have become contaminated, might present more serious health effects.

12. ECOLOGICAL INFORMATION

Biodegradability: <50% (CEC L-33-T-82) **Chemical oxygen demand (mgO₂/L):** Not determined

Not readily biodegradable but inherently biodegradable.

Leaching and penetration through surface soils is generally regarded as resulting in long term persistence. Fresh or used product may be harmful to aquatic life.

13. DISPOSAL INFORMATION

The product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. The local authority may limit such burning. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any licensed waste disposal site or can be removed by approved waste contractors. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

14. TRANSPORT INFORMATION

Classification for transport:	Not classified as hazardous for transport.		
Shipping name:	Not applicable.		
UN number:	None allocated.	Packing group:	Not applicable.
UN class:	None allocated.	Marine pollutant:	No
ADR/RID:	Not regulated by ADR/RID.		
ICAO/IATA class:	Not regulated by ICAO/IATA.		
ACTDG class:	Not regulated by ACTDG.		
IMO class:	Not regulated by IMO.		

15. REGULATORY INFORMATION

Hazard label data:	Not classified
R & S Phrases:	Not applicable
AS 1940 Classification:	Class C2 combustible liquid.

16. OTHER INFORMATION

Occupational Exposure Limits: - When a time weighted average (TWA) concentration for an 8 hour day, 5 day week has not been established by WorkSafe Australia for any product or material, a blanket recommendation of 5 mg/m³ for respirable vapours, dusts and mists is to be used.

The information given herein relates only to the specific material designated and is offered in good faith as being accurate and reliable as of the date indicated, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. None of the information given is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others that may be affected, of any hazards described in this sheet and of any precautions, which should be taken.

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