

SACOA PTY LTD

MATERIAL SAFETY DATA SHEET



S A C O A
growing technology

Supplied as a highly refined emulsified paraffinic oil or to enhance the spreading and wetting characteristics of herbicides and pesticides on plant and insect surfaces and other suitable applications only

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SHEET REF: ESO 2001
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Product Name: SACOA ENHANCE SPRAY ADJUVANT

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA CRITERIA

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SACOA Enhance Spray Adjuvant

CHEMICAL FAMILY: Water emulsifiable paraffinic oil, based on severely hydrotreated paraffinic mineral oil with natural ethoxylated alkanol emulsifiers.

PRODUCT CODE: MAN42

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 hydro-treated 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 ethoxylated alkanol emulsifier	Mixture	Mixture	20-40%
Severely Hydrotreated. Heavy Paraffinic distillates	-	64742-54-7	60-80%

This product is not hazardous to health as defined by the Worksafe Australia criteria.

See Section 15 for regulatory information.

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 hydrotreated 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:	Bright and clear pale yellow to amber
Odour:	Mild
Density at 15°C (kg/L):	0.850
pH at 20°C (3%vol in tap water):	7.0 to 8.5
Vapour pressure at 20°C (mm Hg):	<0.01k Pa
Vapour density (air=1):	>2.0
Boiling point (°C):	>200 °C
Pour point (°C):	-12
Flash point (closed cup) (°C):	>140.0 °C (PMCC)
Auto-ignition temperature (°C):	>200.0
Flammability limits (%v/v in air):	LEL: 0.8% u/v UEL: 7.5% u/v
Kinematic viscosity at 40°C (mm²/s):	15.5
Solubility in water:	Emulsifies in water to form a 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:	R 36/38	S 24/25	
AS 1940 Classification:	Class C1 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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