

Safety Data Sheet

Revision Date: 11-December-2002

replaces all previous editions

AGRAL

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY OR UNDERTAKING

Identification of the Substance or Preparation

Trade Name AGRAL
Design Code YF5977 / A12712A
AGI Code 1000189

Company identification

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description

A wetting and spreading agent.

CAS-No.	Hazardous ingredients	Hazard symbols	Concentration (% w/w)	Risk Phrases (R)
	Alkylphenol Ethoxylate (Supplier's classification)	Xn	92	22-36/38-53
78-83-1	2-Methylpropan-1-ol (also known as Isobutanol)	Xn	< 10	10-20

3. HAZARDS IDENTIFICATION

Irritating to eyes and skin. Flammable. May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Eye contact: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Skin contact: Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

Ingestion: If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do not induce vomiting.

Medical advice

Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Flammable. Keep fire exposed containers cool by spraying with water.

Extinguishing media: For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Protective Equipment: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls.

Clean up methods: Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

HANDLING AND STORAGE

Handling

Read the label before use.

Avoid contact with skin and eyes. Do not breathe spray. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs.

Storage Life: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Occupational exposure limits EH40/2002; Hazardous ingredient 2-Methylpropan-1-ol
LTEL, 8 hr TWA: 50 ppm, 154 mg/m³
STEL, 15 min: 75 ppm, 231 mg/m³.

Not applicable to field use.

Personal protection

When using this product refer to the label for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Colour:	Brown.
Odour:	Mild.
Boiling point:	Not available.
Melting point:	Not available.
Flash point:	47 °C.
Autoignition temperature:	Not available.
Explosive properties:	Not applicable.
Vapour pressure:	Not available.
Density:	1.03 g/ml.
Solubility:	Soluble in/with water.
pH-value (quant.):	Not available.
Partition coeff.:	Not available.
Oxidizing properties:	Not applicable.

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Lethal Doses)

This health hazard assessment is based on a consideration of the composition of this product.

LD50 Oral rat: > 2000 mg/kg. Low oral toxicity.

Inhalation: Unlikely to cause harmful effects under normal conditions of handling and use.

Acute Toxicity (Irritation, Sensitisation, etc.)

Eye Irritation: Irritating to eyes.

Skin Irritation: Irritating to skin.

Skin Sensitisation: Unlikely to cause skin sensitisation.

Chronic Toxicological Effects / Long Term Exposure

Long Term Exposure: No long term risks to man are associated with the normal handling and use of this material.

12. ECOLOGICAL INFORMATION

Persistence and Degradation

Information applies to Alkylphenol Ethoxylate.

Degradability: This surfactant complies with the minimum 80% biodegradability requirement of the EEC non-ionics directive 82/242.

Ecotoxicity

Information applies to Alkylphenol Ethoxylate.

May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GIFAP, 1987.

Empty containers should be washed and discarded. Empty containers should not be used for other purposes.

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Road, Rail, Air & Maritime Transport ADR/RID/ICAO/IATA/IMDG

UN/ID Number:	UN1212
Class-primary:	3 Flammable Liquid
UN Packaging Group:	III
Proper shipping name:	ISOBUTANOL SOLUTION
Marine pollutant:	No

15. REGULATORY INFORMATION

Classification:	IRRITANT, FLAMMABLE	
Hazard symbols:	Xi	
Risk Phrases (R):	36/38	Irritating to eyes and skin.
	53	May cause long-term adverse effects in the aquatic environment.
Safety Phrases (S):	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36/37/3	Wear suitable protective clothing, gloves and eye/face protection.
	9	

This substance is covered by the EEC Dangerous Substances Directive (CPL Regulations). It has therefore been labelled in accordance with these regulations.

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

Use: To improve the wetting and spreading properties of fungicidal, insecticidal and weed killing sprays.

Always read the label. Use pesticides safely.

Approval Number; ADJ 0421.

Based upon HSDS version 4, Release date, 06/11/96 with DPD update. Major change in section 15.

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
