

ARMA

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

Chemical name	Modified fatty amine polymer.
Supplier	Interagro (UK) Ltd Sworders Barn Sworders Yard North Street Bishop's Stortford Hertfordshire CM23 2LD
Emergency telephone	01279 501995 (during office hours) 020 8950 8854 (after office hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description Arma (ADJ No. 0306) is an agricultural, horticultural and forestry wetting agent containing 50% w/w modified fatty amine polymer.

INGREDIENT	CONCENTRATION (% by weight)	HAZARD	DANGER SYMBOL(S)
Modified fatty amine polymer	50	Harmful if swallowed Irritating to skin	Xn Xi

3. HAZARDS IDENTIFICATION

Arma is unlikely to present a significant health hazard under normal conditions of handling and use.

Environment Harmful to fish or other aquatic life

4. FIRST AID MEASURES

General	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation	Remove to fresh air. If breathing is difficult give oxygen. Obtain medical attention immediately.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Launder clothes before reuse.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation persists.

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4. FIRST AID MEASURES (Continued)

Ingestion	If patient is fully conscious, give two glasses of water. Obtain medical attention.
Notes to physician	If this substance has been swallowed, perform gastric lavage.

5. FIRE-FIGHTING MEASURES

Not classified as flammable.

Extinguishing media	Treat as an oil fire. Extinguishing media: water mist*, foam, dry chemical powder or carbon dioxide (CO ₂).
Unsuitable extinguishing media	waterjet.
Special exposure hazards	No specific recommendations.
Hazardous decomposition / combustion products	No typical hazardous decomposition products known.
Protective equipment	Wear suitable protective clothing (refer to Section 8).
Other information	*Water spray may be ineffective unless used by experienced fire fighters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing.
Environmental precautions	Expected to be toxic to aquatic life. Avoid discharge to natural waters.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal. Avoid contact with liquid.
Other information	For personal protection see Section 8.

7. HANDLING AND STORAGE

Handling	When using do not eat, drink or smoke. Wash thoroughly after handling.
Fire and explosion prevention	No specific recommendations
Storage requirements	Keep in the original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs.
Other information	To maintain quality, store at ambient temperatures and prevent from freezing.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	The usual precautionary measures for handling chemicals should be observed.
Ventilation	Use in well ventilated area.
Respirators	None expected to be needed.
Protective gloves	Wear PVC or nitrile gloves or gauntlets.
Eye protection	Wear goggles with side protection or faceshield
Exposure limits	No exposure limits have been established.
Other protective equipment	Eye bath and safety shower. Chemical apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow coloured liquid (at 20°C).
Odour	none.
pH value	4-8 (100g/l, water)
Boiling point/range	> 200°C
Melting point/range	< 0°C (Pour point)
Flash point	> 100°C, Pensky-Martens closed cup.
Flammability	not applicable.
Autoignition temperature	not determined.
Explosive properties	none known.
Oxidizing properties	none known.
Vapour pressure	< 100 Pa (175°C)
Density	1050 kg/m ³ (20°C)
Solubility in water	Soluble/dispersible.
Partition coefficient n-octanol/water	none known.
Relative vapour density (air = 1)	not determined.
Viscosity	400 mPa.s (25°C)

10. STABILITY AND REACTIVITY

Stability	Stable. No decomposition if stored and handled properly.
Conditions to avoid	Extremes of temperature.
Materials to avoid	Normally unreactive; however, avoid strong bases, strong acids and strong oxidising agents.
Hazardous decomposition products	No specific hazardous decomposition products known.

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11. TOXICOLOGICAL INFORMATION

Name	Modified fatty amine polymer.
Acute toxicity	Oral LD ₅₀ : >2000 mg/kg (rat)
Irritation	
Skin	Non-irritating
Eye	Non-irritating

12. ECOLOGICAL INFORMATION

Degradability	Biodegradable.
Ecotoxicity	Harmful to fish or other aquatic life.

13. DISPOSAL CONSIDERATIONS

Product	According to local regulations (most probably controlled incineration).
Contaminated packaging	According to local regulations.

14. TRANSPORT INFORMATION

Land Transport

ADR Class	not restricted	ADR item number	not relevant
RID Class	not restricted	ADR item number	not relevant
Hazard Identification no.	not relevant	Substance identification no.	not relevant
TREM-Card	not relevant	UN number	none
Proper shipping name	not relevant		

Sea Transport

IMO/IMDG code	not restricted	Class	not restricted
Packaging group	not relevant	UN number	none
EMS	not relevant	MFAG	not relevant
Marine Pollutant	no		
Proper Shipping name	not relevant		

Air Transport

ICAO-TI/IATA-DGR Class	not restricted	UN number	none
Proper shipping name	not relevant	Packaging group	not relevant

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15. REGULATORY INFORMATION

Chemical Description Modified fatty amine polymer.

Safety phrase(s) S2: Keep out of reach of children
S13: Keep away from food, drink and animal feedingstuffs
S20/21: When using do not eat, drink or smoke
S49: Keep only in the original container

This product is covered by the Control of Pesticides (Amendment) Regulations 1997, and is labelled accordingly.

All other national and local regulations, if applicable to the use, transport or disposal of this product, should be observed.

EINECS The ingredients of this product are on the EINECS inventory.

TSCA The ingredients of this product are on the TSCA inventory.

16. OTHER INFORMATION

Recommended uses and restrictions

Arma (ADJ No. 0306) is an agricultural, horticultural and forestry wetting agent for use with pesticides.

Please consult the product label and/or application information bulletins for this product.

This data sheet was prepared in accordance with Directive 93/112/EC.

The information and recommendations in this publication relate only to the specific material identified, and are to the best of our current knowledge, information and belief accurate at the date of publication. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

History

Date of issue	28 th November 2000
Revision	3
Composed by	A. East
Changes were made in section	Sections 1 has been revised.