



SAFETY DATA SHEET

ARMOBREAK[®]

Date of Issue: 28 January 2011

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Fatty amine polymer

Recommended use: Agricultural adjuvant.
Blossom Thinner in Stone fruit

Supplier: Etec Crop Solutions Ltd
PO Box 51584
Pakuranga, Auckland
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Toxic - 6.1C, 6.4A,
Ecotoxic - 9.1A, 9.3C, 9.4B

Required identification Details: **WARNING**
KEEP OUT OF REACH OF CHILDREN
ECOTOXIC
Harmful, irritant.
May cause eye irritation.

Very toxic to aquatic organisms.
Harmful to terrestrial vertebrates.
Toxic to terrestrial invertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Fatty amine polymer	68213-26-3	40-50
Lactic Acid		1-5

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms No known symptoms

First-aid measures

Remove from contaminated area. Consult a doctor.
Symptomatic treatment.

Inhalation:

Move to fresh air. Symptomatic treatment.

Ingestion:

Harmful if swallowed. Rinse with water. Drink plenty of water afterwards. Symptomatic treatment. Do not give anything by mouth to an unconscious person.

Skin contact:

Remove contaminated clothing and shoes immediately. Rinse with plenty of water. If skin irritation persists, call a doctor. Symptomatic treatment.

Eye contact:

Flush eyes with clean running water for 15 minutes. If irritation persists see a doctor.

Notes to a physician:

No special instructions. Symptomatic treatment should be applied.

5. FIRE-FIGHTING MEASURES**HAZCHEM Code:**

3Z

Extinguishing media :

Treat as an oil fire. Extinguishing media: water mist*, foam, dry chemical powder or carbon dioxide.
Use extinguishing media appropriate to local circumstances and the surrounding environment.
Water spray may be ineffective unless used by experienced fire fighters.

Hazardous thermal (de)composition products:

No typical hazardous decomposition products known.

Protection of fire-fighters:

Wear self contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.
Residues must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work. Prevent entry of product into drains and waterways.

Environmental precautions:

Prevent entry of product into drains and waterways. Inform authorities if product enters rivers, lakes or drains.

Methods for cleaning up:

Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area. Soak up with sand, sawdust or other inert absorbent material; shovel or sweep up and bury in an approved landfill.
Use suitable closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Do not inhale spray. When using do not eat, drink or smoke. Avoid release to the environment
Storage:	Store in original container, tightly closed in a locked, dry, well ventilated place away from feed, seed and foodstuffs. Keep away from sparks, heat and flames. Keep out of reach of children and animals. No decomposition if stored and applied as directed.
Packaging materials:	20 litre HDPE plastic jerry cans 200 litre metal drums

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	Not established. Contains no substances with occupational exposure limit values.
Exposure Standards outside: The workplace:	Not established

Engineering measures

Exposure control measures:	Effective exhaust system. The usual precautionary measures for handling chemicals should be observed.
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Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	In case of vapour formation use a respirator with an approved filter.
Skin and body:	Protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hands:	Gloves – neoprene or nitrile rubber.
Eyes:	Eye wash bottle with pure water. Wear mask or goggles.
General hygiene:	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while using. Wash hands after work and before eating

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Light yellow amber
Odour:	None
pH:	4-8 @ 1% solution
Vapour Pressure:	< 10 Pa (20°C)
Density:	1060 kg/m ³ (20°C)
Boiling Point:	> 200°C
Melting point:	<-18°C

Solubility:	Soluble
Information for flammable material including:	
- Flashpoint (state test Method)	100-199°C , Pensky-Martens closed cup [ISO 2719]
Auto – ignition Temperature:	> 150°C
Octanol/water partition coefficient:	Not known
Explosion properties:	Not Explosive
Oxidation properties:	Not an oxidizer
Viscosity:	400 mPa.s @20°C

10. STABILITY AND REACTIVITY

Stability:	No decomposition if stored and handled properly
Conditions to avoid:	None known
Materials to avoid:	None known
Hazardous decomposition Products:	None known
Hazardous polymerization:	None known
Specific Data:	N/A
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Dermal :	LD50 rats. > 2000 mg/kg. The value is estimated from tests on similar products.
Acute toxicity – Inhalation:	Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.
Skin irritation :	May cause skin irritation and/or dermatitis.
Eye irritation:	Vapours may cause irritation to eyes, respiratory system and the skin.
Sensitization :	Not sensitizing.
Acute toxicity – Oral :	LD50 rats. Dose: > 500 mg/kg. The value is estimated from tests on similar products.

Toxicology data for the components:

Oleyl (vegetable oil) amine ethoxylated, propoxylated:

Acute dermal toxicity:	LD50 rats. Dose > 2000 mg/kg. The value is estimated from tests on similar products.
Acute oral toxicity:	LD50 rats. Dose: > 500 mg/kg. The value is estimated from tests on similar products.
Irritation:	Irritant
<u>Lactic acid:</u>	
Acute dermal toxicity:	LD50 rabbit. Dose > 2000 mg/kg.
Acute oral toxicity:	LD50 rat. Dose > 3543 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Biodegradability:	Not readily degradable
Test Result:	
Fish	
Daphnia magna	EC50. Species fish. Dose: 0.34 mg/L. Exposure time: 96 hr EC50. Species Daphnia. Dose: 4.6 mg/L. Exposure time 48 hr
Algae	
Bees	Not toxic to bees
Mobility Soil	Not mobile in soil
Water	Toxic to fish

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Use according to label instructions.

14. TRANSPORT INFORMATION

International transport regulations

UN number: 3082

Class or Division: 9

Packing Group: III

Marine Pollutant:

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (contains fatty amine polymer)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): Not restricted

15. REGULATORY INFORMATION

ACVM Registered Number: P5622
HSNO Approval Code: HSR000777

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 28th June 2006
Revision Date: N/A
Replaces: N/A

DISCLAIMER

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