

SAFETY DATA SHEET

ARMOBREAK®

Date of Issue: 1 Jun 2016

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

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

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. Harmful if swallowed.

May cause eye irritation.

Very toxic to aquatic organisms. May cause long-term

adverse in the aquatic environment.

Dangerous for the environment. Avoid release to the

environment.

Wash skin thoroughly after using.

Do not eat, drink or smoke when using this product. Wear

%

protective gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name **CAS No**

Alkyl amine alkoxylated 1258305-76-8 (polymer) >95

4. FIRST-AID MEASURES

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Description of necessary first aid measures:

General Move away from danger area. If symptoms persist, consult a

physician. Have SDS sheet available for the doctor.

Effects and symptomsNo known symptoms

<u>First-aid measures</u> Remove from contaminated area. Consult a doctor.

Symptomatic treatment.

Inhalation: Not likely to occur. Move person to fresh air if inhaled.

Seek medical attention after significant exposure.

Ingestion: Harmful if swallowed. Rinse with water. Drink plenty of water

afterwards or a few glasses of milk. Symptomatic treatment. Do not give anything by mouth to an unconscious person. Call the National Poisons Centre or a doctor if feeling unwell. Remove contaminated clothing and shoes immediately. Rinse

with plenty of water or use recognized skin cleaner. Launder

clothes before re-use.

Eye contact: Flush eyes with clean running water for 15 minutes. Remove

contact lenses. Protect unharmed eye. If irritation persists

see a doctor.

Notes to a physician: If this substance has been swallowed perform gastric lavage.

5. FIRE-FIGHTING MEASURES

Skin contact:

HAZCHEM Code: 3Z

Extinguishing media: Treat as an oil fire. Extinguishing media: water mist*, foam,

dry chemical powder or carbon dioxide. (Water spray may be

ineffective unless used by experienced fire fighters).

Use extinguishing media appropriate to local circumstances

and the surrounding environment.

Unsuitable extinguishing media: water jet.

Water spray may be ineffective unless used by experienced

fire fighters.

Hazardous thermal Carbon monoxide, carbon dioxide.

(de)composition products: Non-flammable. If involved in a fire it will support

combustion.

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: The usual precautions for handling chemicals should be

observed. Use personal protective equipment. For personal

protection see Section 8.

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. Collect contaminated fire extinguishing water

separately. Fire residues and contaminated water must be disposed of in accordance with local regulations. Cover the remainder with inert absorbent (e.g. vermiculite, sawdust).

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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. For personal protection see Section 8. Normal measures for preventive fire protection.

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. To maintain quality, store at ambient temperatures.

Packaging materials: 20 litre HDPE plastic jerry cans

200 litre metal drums

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: No exposure limit has been established.

Contains no substances with occupational exposure limit

values.

Exposure Standards outside:

The workplace:

Not established

Engineering measures

Exposure control measures: Provide eyewash station. Effective exhaust system. The usual

precautionary measures for handling chemicals should be

observed.

<u>Personal Protective Equipment</u>

Detail specifications for equipment:

Respiratory system: No specific recommendations.

Skin and body: Protective suit

Hands: Neoprene or nitrile rubber.

Eyes: Avoid contact with eyes. Use eye wash bottle with pure

water. Wear safety 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

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Physical State: Liquid (20°C)

Colour: Amber
Odour: Amine-like

pH: 6-10 @ 100g/l in water

Vapour Pressure: < 10 Pa (20°C), 100 Pa (345°C)

Density: 990 kg/m³ (20°C)

Boiling Point: > 300°C **Melting point:** <-10°C

Solubility: Soluble/dispersible

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Solubility in other solventsSoluble in ethanol and octanol. Soluble in xylene.

19°C (AB-46-1203, 20°C)

Cloud point in water (1%)
Information for flammable material

including:

Flashpoint (state test >178°C,

Method Pensky-Martens closed cup [ISO 2719]

Auto – ignition Temperature:
Octanol/water partition coefficient:
Explosion properties:
Not determined
Not known
Not explosive

Oxidation properties:
Not classified as oxidising
Viscosity:
235 mPa.s (20°C Newtonian)

10. STABILITY AND REACTIVITY

Reactivity: Weak base. Exothermic (reversible) reaction with strong

acids.

Stability: Stable under recommended storage conditions. No dangerous

reaction(s) known under conditions of normal use. No

decomposition if stored and handled properly

Conditions to avoid:

Materials to avoid:

Hazardous decomposition Products:

Hazardous polymerization:

None known
None known

Specific Data: N/A

Hazardous reactions : None known

11. TOXICOLOGICAL INFORMATION

Component: Alkyl amine polymer.

No experimental ecological data are available on the preparation as such. From structurally related products, the following may be expected.

Hazard Summary:

Inhalation Inhalation of (aqueous) aerosols may cause irritation to

mucous membranes.

Skin May cause skin irritation

Eyes May cause irritation to eyes, respiratory system.

Ingestion Harmful if swallowed. May cause irritation to mucous

membranes.

Acute toxicity - Dermal $LD_{50} > 2000 \text{ mg/kg (rat)}$ (IAAS E-file)

Acute toxicity - Oral LD_{50.} 500-2000 mg/kg (rat) (*IAAS E-file*) Vapour pressure low; inhalation; not relevant.

Skin irritationNon-irritating (IAAS E-file)Eye irritationMildly irritating (IAAS E-file)SensitizationNot sensitizing (IAAS E-file)

Genotoxicity Not mutagenic (Ames test) (IAAS E-file)

In vitro cell gene mutation test (in V79 cells): not mutagenic In vitro cytogenetic test in human lymphocytes: not mutagenic

Other toxicological information: Sub-acute (28 days) oral toxicity (rat):

No Observed Adverse Effect level; NOEL I= 15mg/kg/day (IAAS E-file)

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12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the preparation as such. From structurally related products, the following may be expected.

Ecotoxicity:

Fish 96 h – LC50: 0.34 mg/l (Oncorhynchus mykiss) (IAAS E-file)

Daphnia 48 h-EC50: 0.26 mg/l (IAAS E-file)

M-Factor

Persistance and degradability:

Biodegradability Not readily biodegradable

Bioaccumulative potentialNo data availableMobility in SoilNo data availableResults of PBT and vPvBNo data available

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste.

Methods of disposal: Disposal of product and packaging according to local

regulations. 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.

(Polymer: alkylamine alkoxylate)

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: 1 June 2016

Replaces: ES365

DISCLAIMER

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Elliott Technologies Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

TRADEMARKS

® Armobreak is a registered trade mark IAAS

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