

SAFETY DATA SHEET

Break-N™

Date of Issue: 11 July 2011

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Nitrogenous fertiliser
Recommended use: Plant applied fertiliser
Supplier: ETEC Crop Solutions Limited
P O Box 51584
Pakuranga 2140
Auckland
Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:

6.3B 6.4A 9.1C

Causes mild skin irritation
Causes serious eye irritation
Harmful to aquatic life
Do not apply to bodies of water. Toxic to fish. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or empty container.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
calcium ammonium nitrate	15245-12-2	30-60
urea	57-13-6	10-30

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Ingestion:

If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Skin contact:

Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye contact:

Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be

Notes to a physician:

undertaken by skilled personnel.

Treat symptomatically.

Symptoms of vasodilation and reflex tachycardia may present following organic nitrate overdose; most organic nitrates are extensively metabolised by hydrolysis to inorganic nitrites. Organic nitrates and nitrites are readily absorbed through the skin, lungs, mucosa and gastro-intestinal tract. The toxicity of nitrates and nitrites result from their vasodilating properties and their propensity to form methaemoglobin. Most produce a peak effect within 30 minutes. Clinical signs of cyanosis appear before other symptoms because of the dark pigmentation of methaemoglobin. Initial attention should be directed towards improving oxygen delivery, with assisted ventilation, if necessary. Hyperbaric oxygen has not demonstrated conclusive benefits. Institute cardiac monitoring, especially in patients with coronary artery or pulmonary disease.

Hypotension should respond to Trendelenburg's position and intravenous fluids; otherwise dopamine may be needed.

Naloxone, glucose and thiamine should be given if a multiple ingestion is suspected.

Decontaminate using Ipecac Syrup for alert patients or lavage for obtunded patients who present within 2-4 hours of ingestion.

Symptomatic patients with methaemoglobin levels over 30% should receive methylene blue. (Cyanosis alone, is not an indication for treatment). The usual dose is 1-2 mg/kg of a 1% solution (10 mg/ml) IV over 5 minutes; repeat, using the same dose if symptoms of hypoxia fail to subside within 1 hour.

Deleted: ¶

5. FIRE-FIGHTING MEASURES

HAZCHEM Code: 2X

Extinguishing media :

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:
Foam.

Dry chemical powder.

Carbon dioxide.

Hazardous thermal (de)composition products:

Decomposes on heating and produces toxic fumes of: carbon dioxide (CO₂), nitrogen oxides (NO_x), other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

Protection of fire-fighters:

Wear breathing apparatus plus protective gloves for fire only.

Prevent, by any means available, spillage from entering drains or water courses.

Use fire fighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

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

Avoid contact with skin and eyes. Do not inhale spray. Wear protective clothing and equipment. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions:

Isolate and post spill area. Large spills should be dyked or covered to

prevent dispersal. DO NOT allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area.

Methods for cleaning up:

Contain spill with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
Neutralise/decontaminate residue.
Collect solid residues and seal in labelled drums for disposal.
Wash area and prevent runoff into drains.
After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
If contamination of drains or waterways occurs, advise emergency service. Hovel or sweep up and dispose of in accordance with the requirements of the regional Council By-laws.

7. HANDLING AND STORAGE

Handling:

Ensure containers are kept closed until using product.
DO NOT allow clothing wet with material to stay in contact with skin
Avoid all personal contact, including inhalation.
Wear protective clothing when risk of exposure occurs.
Use in a well-ventilated area.
Prevent concentration in hollows and sumps.
DO NOT enter confined spaces until atmosphere has been checked.
DO NOT allow material to contact humans, exposed food or food utensils.
Avoid contact with incompatible materials.
When handling, DO NOT eat, drink or smoke.
Keep containers securely sealed when not in use.
Avoid physical damage to containers.
Always wash hands with soap and water after handling.
Work clothes should be laundered separately. Launder contaminated clothing before re-use.
Use good occupational work practice.
Store in original containers.
Keep containers securely sealed.
Store in a cool, dry, well-ventilated area.
Store away from incompatible materials and foodstuff containers.
Protect containers against physical damage and check regularly for leaks.
Observe manufacturer's storing and handling recommendations.

Deleted: ¶
¶

Storage:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

Exposure Standards outside the workplace:

No exposure standard has been established.

Engineering measures

Exposure control measures:

Use in well ventilated area only. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

Personal Protective Equipment (PPE):

Detail specifications for equipment:

Work Clothing: Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves, head covering and impervious footwear.
Eye Protection: Wear chemical protective goggles or face shield.

Respiratory Protection: If inhalation risk exists, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides.

Gloves: Wear chemical protective gloves when handling this product. Inspect regularly for leaks. Wash the outside of the gloves with soap and water prior to removal.

Personal hygiene: Clean water should be available for washing in Case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear viscous liquid
Colour:	Clear
Odour:	Slightly aromatic odour.
pH:	6.3
Vapour Pressure:	No data
Boiling Point:	No data
Freezing/melting point:	No data
Solubility:	Product is soluble in water.
Specific gravity or density:	1.35 g/ml
Flammability:	Not Combustible
Flashpoint:	Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable unless mixed with incompatible materials
Conditions to avoid:	Avoid reaction with oxidising agents, bases and strong reducing agents. Avoid storage with reducing agents.
Materials to avoid:	Can react with oxidising agents and acid catalysts.
Hazardous decomposition Products:	If involved in a fire, it may emit fumes containing toxic compounds.
Hazardous reactions :	No special considerations.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Causes mild skin irritation. Causes serious eye irritation

Acute:

Acute toxicity - Oral :	Not available
Acute toxicity - Dermal :	Irritating to skin
Acute toxicity - Inhalation: LC₅₀	Not available

Eye irritation: Causes serious eye irritation

Chronic toxicity: No Chronic health effects expected

12. ECOLOGICAL INFORMATION

Environmental Toxicity Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

Environmental Properties: Harmful to aquatic life
Do not apply to bodies of water. Toxic to fish. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or empty container.

13. DISPOSAL CONSIDERATIONS

Spills and Disposal: This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority.

Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Disposal of empty containers: Triple rinse container and add residue to spray tank. Crush empty container and bury in landfill. If not available, bury containers below 500mm in a disposal pit marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION - International transport regulations

UN number: Not Classified

Class or Division: Not Classified

Classification Code:

Packing Group:

Marine Pollutant:

Proper shipping name :

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number:

HSNO Approval Code:

16. OTHER INFORMATION

Additional information:

Original Issue Date: 11.07.2011

Disclaimer: Please Read

Information given in this SDS are based upon up to date information available at the time of issue.

To the extent permitted by law, users of these information accept that neither the manufacturer, Etec Crop Solutions as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury v in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these

Break-N® is a registered trademark of Etec Crop Solutions Ltd