

Browndown®

Date of Issue: 13 September 2006

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):

Recommended use: Adjuvant

Supplier:

Elliott Technologies Limited
45 Kitchener Road
Pukekohe
Phone 0800 100 325

Emergency telephone number:

0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.8A, 9.1A

Required identification Details:

Toxic – repeated oral exposure may cause reproductive/development damage

Ecotoxic – Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(triflouromethyl) benzene and related reaction products	42874-03-3	5.47%
Hydrocarbon solvent		High content (>60%)
Cyclic Amide Solvent		Low content (<10%)
Inerts		13.68%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

If inhaled will produce a sore throat, shortness of breath, coughing, dizziness, nausea. Remove to fresh air. Call a doctor.

Ingestion:

If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre **0800 POISON (0800 764 766)** or a doctor immediately.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for several minutes. Severe dermatitis may be caused after prolonged or repeated contact. If irritation persists see a doctor.

Eye contact: If contact with eyes occur it will become a severe irritant, causes redness and pain. Immediately flush with clean running water for 15 minutes. If irritation persists see a doctor.

Notes to a physician: If ingested, evacuation of the stomach may be advisable. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code: 2W

Extinguishing media : Fine spray, foam, dry chemical, CO₂

Hazardous thermal (de)composition products: N/A

Protection of fire-fighters: Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective clothing (refer section 8)

Environmental precautions: Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area.

Methods for cleaning up: Soak up with sand, sawdust or other absorbent material, shovel or sweep up and bury in an approved landfill.

7. HANDLING AND STORAGE

Handling: Keep away from naked flame.

Storage: Store in original container tightly closed in a locked, dry, well ventilated place away from food and feedstuffs. Keep away from sparks, heat and flames. Keep out of reach of children or animals.

Packaging materials: Spun aluminium flask

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: Not Set

**Exposure Standards outside:
The workplace:** Not set

Engineering measures

Exposure control measures: Use local exhaust at all process locations where vapor or mist may be emitted.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: For splash, mist or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides.

Skin and body: For splash, mist or spray exposure, wear chemical protective Goggles or a face shield.

Hands: Wear chemical protective gloves made of materials such as nitrile or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

Eyes: Safety goggles or face shield.

General hygiene: Wash hands and face after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: Clear yellow-brown

Odour: Citric odour

pH: Highly acidic

Vapour Pressure: No data

Vapour Density: 0.905 g/ml

Boiling Point: 215°C

Flash Point: >100°C

Freezing/melting point: No data

Solubility: N/A; in ethanol: all proportions

Specific gravity or density: 0.905 g/ml

Information for flammable material including:

- **Flammability limits** 0.7% by volume to 6.1% by volume
- **Method** > 100°C Closed Cup

Flashpoint:

> 100°C

Octanol/water partition coefficient:

Not established

Explosion properties:

Not Explosive

Oxidation properties:

Not an oxidiser

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions

Conditions to avoid:

Keep away from naked flame.

Materials to avoid:

Oxidising agents and food items

Hazardous decomposition Products:

N/A

Hazardous polymerization:

N/A

Hazardous reactions :

N/A

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :

No data

Acute toxicity - Dermal :

Skin irritant

Acute toxicity – Inhalation:

Inhalation of vapour or mist may cause severe irritation of respiratory system.

Skin irritation :

Severe skin irritant. Prolonged exposure may result in dermatitis.

Eye irritation:

Severe eye irritant

Sensitization :

Not a sensitiser

Chronic toxicity

Carcinogenicity:

Not a carcinogen

Mutagenicity:

Not mutagenic

Reproduction toxicity:

Not a reproductive toxin

Other information :

ACUTE EFFECTS FROM OVEREXPOSURE: refer Section 4

CHRONIC EFFECTS FROM OVEREXPOSURE: Prolonged exposure to high doses may cause kidney and liver damage.

12. ECOLOGICAL INFORMATION

No data available for the formulation.

ENVIRONMENTAL DATA:

ECOTOXICOLOGICAL INFORMATION:

Marine: May be toxic to aquatic organisms at high dose levels.

Soil: Toxic to plants

Birds: Non toxic to birds

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

Triple rinse container and add to spray tank, burn if circumstances, particularly wind direction, permit allow, otherwise crush and bury in an approved landfill.

14. TRANSPORT INFORMATION

International transport regulations

UN number: N/A

Class or Division: N/A

Classification Code: N/A

Packing Group: III

Marine Pollutant: N/A

Proper shipping name :

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

Notes: Browndown meets no criterion established for dangerous good when shipped by aircraft.

15. REGULATORY INFORMATION

ACVM Registered Number: Not a registered pesticide

HSNO Approval Code: Classified under Group Standard HSR002503

16. OTHER INFORMATION

Original Issue Date: 13 September 2006

Revision Date: N/A

Replaces: N/A

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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