

**1. SUBSTANCE IDENTIFICATION:****Triflain**

SUPPLIER NAME: AGPRO NZ Limited  
SUPPLIER CODE: None  
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.  
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457  
EMERGENCY PHONE: 0800 POISON  
CHEMICAL ACTIVE: Trifluralin 480g/L  
USE: A herbicide for pre-emergent weed control in brassicas, Lucerne, peas, beans and some other vegetable crops.S

**2. HAZARDS IDENTIFICATION: HARMFUL, ECOTOXIC, KEEP OUT OF REACH OF CHILDREN**

## Hazard Classes:

3.1D: Combustible liquid – keep away from naked flame.  
6.1A: May be harmful if swallowed, inhaled or absorbed through the skin.  
6.3B: Harmful – may cause skin irritation.  
6.4A: Harmful – may cause eye irritation.  
6.5B: May cause sensitization by skin contact.  
6.9A: Toxic –presumed to/may cause target organ damage from repeated oral exposure at high doses.  
9.1A: Very toxic to aquatic life with long lasting effects.  
9.2A: Very toxic to the soil environment.  
Refer to Section 15 for ERMA Requirements.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NUMBER	CONCENTRATION
Trifluralin	1582-09-08	480g/L
Other ingredients		up to 100%

**4. FIRST - AID MEASURES:**

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.  
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.  
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.  
INGESTION: Do not induce vomiting. Seek medical advice.  
NOTES TO DOCTOR: Treat symptomatically.

**5. FIRE FIGHTING MEASURES:**

FLASHPOINT: >93 degrees C.  
FLAMMABLE: Non-flammable but combustible in a fire.  
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.  
THERMAL DECOMPOSITION PRODUCTS:  
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

**6. ACCIDENTAL RELEASE MEASURES:**

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

**7. HANDLING AND STORAGE:**

Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides in a cool, well-ventilated place. Keep out of reach of children. Wash protective clothing daily after work.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Where eye contact is likely, use chemical splash goggles.
RESPIRATORY PROTECTION:	No special protection needed.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGENE PRECAUTIONS:	Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

APPEARANCE / STATE / ODOUR:	Orangey coloured liquid with a characteristic odour.		
BOILING POINT:	Not available	pH:	6.0-8.0.
DENSITY:	1.08g/mL @ 25°C.	SETTING POINT:	Not Available.
DECOMPOSITION TEMP:	Not Available.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	>93°C.	VAPOUR DENSITY:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
SOLUBILITY:	Emulsifiable		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

**10. STABILITY AND REACTIVITY:** Stable under normal conditions.

CONDITIONS TO AVOID:	Avoid mixing with strong acid, alkalis and oxidising agents such as chlorine compounds.
MATERIALS TO AVOID:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	Products from combustion may be toxic.

**11. TOXICOLOGICAL INFORMATION:**

ACUTE ORAL: LD50 (rats) >1400 mg/kg.  
ACUTE DERMAL: LD50 (rats) >2000 mg/kg  
ACUTE INHALATION: LD50 rat 4hr >5mg/L  
OTHER TOXICITY INFORMATION: Warning - May cause mild skin irritation, avoid skin contact.  
Warning - May cause slight eye irritation, avoid contact with eyes.

*Acute*

Swallowed: Single dose oral toxicity is slightly toxic. Rat LD<sub>50</sub> > 2000mg/kg.  
Eye: Minimally irritating.  
Skin: No more than slight irritating.  
Inhaled: No more than slightly toxic.

Systemic Effects: Ingestion of trifluralin at high doses is damaging to the blood and blood cell production.

**12. ECOLOGICAL INFORMATION:**

AQUATIC TOXICITY: Fish - LC50 0.09mg/L 96 hour,  
Non toxic to bees and earth worms.

**13. DISPOSAL CONSIDERATIONS:**

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

**14. TRANSPORT INFORMATION:**

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid, N.O.S. (TRIFLURALIN 48%)  
DG CLASS: 9  
UN NUMBER: 3082  
HAZCHEM: 2X  
PACK GROUP: III  
Marine Pollutant: No

**15. REGULATORY INFORMATION:**

APPROVED HANDLER: This product must be under the control of an approved handler during use.  
See the ERMA Website for more details: [www.ermanz.govt.nz](http://www.ermanz.govt.nz)  
ERMA Approval Code: HSR000830  
ACVM Pesticide Number: P009448.

**16. OTHER INFORMATION:**

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.