



## SAFETY DATA SHEET MESOFLEX 480 SC Herbicide

### Section 1: Identification of the Substance and Supplier

**Product name :** MESOFLEX 480 SC  
**Chemical name of active Ingredient(s):** Mesotrione: 2-[4-(Methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione  
**Supplier:** ADAMA New Zealand Limited  
Level 1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O.Box 1799, Nelson New Zealand.  
**Telephone** +64 3 543 8275 Fax: +64 3 543 8274  
**Emergency Telephone:** 0800 POISON (0800 764 766)

### Section 2: Hazards Identification

**Hazard Classifications:** 6.1E 9.1A, 9.2A,

**Most important hazards:** **TOXICITY**  
**Warning** – May be harmful if swallowed, inhaled or absorbed through the skin.  
**ECOTOXICITY**  
**Very toxic to aquatic organisms and to some plant species.**  
Avoid contamination of any water supply with product or empty container.

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

### Section 3. Composition/Information on Ingredients

**Substance/preparation**

**Information on hazardous ingredients \***

| Common name | CAS No.     | %     |
|-------------|-------------|-------|
| Mesotrione  | 104206-82-8 | 38-42 |

- *Occupational Exposure Limit(s), if available, are listed in section 8*

### Section 4: First-Aid Measures

**First-aid measures:** Remove victim from area of exposure. Wash off remaining material with plenty of water.  
**Inhalation:** Remove victim to fresh air. Keep person warm and at rest. If breathing is difficult: artificial respiration. Get medical attention.  
**Ingestion:** Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.  
**Skin contact:** Remove contaminated clothing. Wash away remainder with water and soap.  
**Eye contact:** Immediately flush eyes with plenty of running water with the eyelid held wide open for at least 15 minutes. Get medical attention.  
**Notes to a physician:** There is no specific antidote. Treat symptomatically and give supportive therapy.  
**Protection of first-aiders:** Use appropriate protection (see section 8).

### Section 5: Fire-Fighting Measures

**Extinguishing media**

**For large fire:** Carbon dioxide water spray, water fog  
**For Small fire:** Use dry chemical powder, carbon dioxide, foam  
(Be aware of runoff from fire control methods)

**Protection of fire-fighters:** Wear suitable protective clothing, gloves and eye/face protection.  
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.



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**Hazardous thermal (de)composition products:** On exposure to high temperature, may decompose, releasing toxic gases, sulfur oxides, carbon monoxide and nitrogen oxides (NO,NO2...)

### Section 6: Accidental Release Measures

**Personal precautions:** Put on appropriate personal protective equipment (see Section 8)  
**Environmental precautions:** Do not discharge into drains or the environment.  
**Methods for cleaning up:** Absorb remainder in sand or other inert material. Collect spilled material. Dispose of in an authorised waste collecting point.

### Section 7: Handling and Storage

**Handling:** Comply with the safety instructions. Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling. Ventilation required.

**Storage:** Keep out of reach of children. Store in the original, tightly closed container, in a secure place away from feed, seeds or foodstuffs. Storage of certain quantities of this product trigger specific storage requirements (Refer to HazNote). When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

### Section 8: Exposure Controls/Personal Protection

**Engineering measures:** Ventilation required.  
**Hygiene measures:** When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

**Common name:** Mesotrione  
**Occupational Exposure Limits TWA [mg/m<sup>3</sup>]:** 10

**Personal protective equipment:**  
**Respiratory system:** Respiratory protection is not required if good ventilation is maintained.  
**Skin and body:** Wear suitable protective clothing. Chemical resistant boots.  
**Hands:** Chemical resistant gloves.  
**Eyes:** Safety goggles or face shield.

### Section 9: Physical and Chemical Properties

**Physical state:** Liquid  
**Colour:** Off white  
**Odour:** Slight  
**pH value:** <4  
**Density:** 1.155 – 1.185 (20°C)  
**Vapour pressure:** 5.69\* 10<sup>-3</sup> mPa (Mesotrione) 20°C  
**Solubility in water:** Miscible  
**Flash Point [°C]:** >100  
**Log P octanol/water at 25 °C:** <1.0 (Mesotrione)  
**Flammability:** Not flammable  
**Explosion limits:** Not Explosive

### Section 10: Stability and Reactivity

**Stability:** Stable under normal conditions  
**Materials to avoid:** mild steel iron and aluminum  
**Hazardous decomposition products:** Carbon monoxide, sulfur oxides, toxic gas and nitrogen oxides (NO,NO2...)



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### Section 11: Toxicological Information

|                                     |   |
|-------------------------------------|---|
| <b>Acute toxicity - Oral:</b>       | LD <sub>50</sub> (rat) = >2,000 mg/kg                 |
| <b>Acute toxicity - Dermal:</b>     | LD <sub>50</sub> (rat) > 2,000 mg/kg                  |
| <b>Acute toxicity – Inhalation:</b> | LC <sub>50</sub> (rat) > 5.59 mg/L (4 hours)          |
| <b>Skin irritation:</b>             | Not irritating  |
| <b>Eye irritation:</b>              | Not irritating  |
| <b>Respiratory or skin</b>          |   |
| <b>Sensitization :</b>              | Non sensitizer (guinea-pig)                           |
| <b>Carcinogenicity:</b>             | Not carcinogenic                                      |
| <b>Germ cell mutagenicity:</b>      | Not mutagenic   |
| <b>Reproduction toxicity:</b>       | No considered to be toxic for the reproductive system |

### Section 12: Ecological Information

|                           |   |
|---------------------------|---|
| 96 H-LC50 – Rainbow trout | > 100 [mg/l]<br>NOEC > 100 (96h)          |
| 48 H-LC50 – Daphnia magna | > 100 [mg/l]                              |
| ErC50 Algae               | 20.6 [mg/l]                               |
| EC50 Algae                | 8.85 [mg/l] (yield)                       |
| LD50 Birds                | > 2000 [mg/l] (Bobwhite quail)            |
| Bees LD50 [µ/bee]         | Oral: > 237 ug/bee<br>Contact > 242ug/bee |

**Persistence and degradability:** Soil: Aerobic DT50=6-27d  
**Mobility:** Soil: Moderate

### Section 13: Disposal Considerations

**Methods of disposal:** Dispose of this product only by using in accordance with this label, or at an approved landfill, or other approved facility. Triple rinse container and add rinsate to the spray tank. Dispose of container to an approved landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose

### Section 14: Transport Information

|                             |  |
|-----------------------------|--|
| <b>UN Number</b>            | 3082   |
| <b>Proper shipping name</b> | Environmentally hazardous substance, Liquid, N.O.S, (Mesotrione) |
| <b>DG Class</b>             | 9  |
| <b>Packing Group</b>        | III  |
| <b>Hazchem Code</b>         | 2X   |
| <b>Marine Pollutant</b>     | Yes  |
| <b>IER Guide page</b>       | 47   |

**National transport regulations:** Do not carry this product on a passenger service vehicle.

**Segregation:** Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

### Section 15: Regulatory Information

#### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997. No P8494  
See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.



# SAFETY DATA SHEET

## MESOFLEX 480 SC Herbicide

Approved pursuant to the HSNO Act 1996, Approval No. HSR100668  
See [www.epa.govt.nz](http://www.epa.govt.nz) for registration conditions

**Hazard Classifications:** 6.1E, 9.1A, 9.2A



**ECOTOXIC**

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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#### **HISTORY**

**Date of printing:** 23/07/2014