



# Material Safety Data Sheet

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Infosafe No. 3NU0L Issue Date : July 2006 ISSUED by NUFARM

Product Name : **Sempra Herbicide**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Sempra Herbicide  
**Product Code** 0727  
**Product Type** Group B Herbicide  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 24hr 1800 033 498  
**Telephone/Fax Number** Tel: (03) 9282-1000 Fax: (03) 9282-1001  
**Recommended Use** For selective post-emergence control of Nutgrass in Sugarcane, Corn/Maize and Sorghum and for the selective post-emergence control of Nutgrass and Mullumbimby couch in Turf. Also for the control of Nutgrass in Cotton using shielded sprayers.  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Other Information** Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Water dispersible granule.  
**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Other Ingredients		Balance
Halosulfuron-methyl	100784-20-1	750 g/kg

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, seek medical advice.  
**Ingestion** Rinse mouth thoroughly with water.  
Give a glass of water.  
Obtain medical advice.  
**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.  
Remove contaminated clothing and launder before re-use.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice.  
**First Aid Facilities** If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.



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<b>Hazards from Combustion Products</b>	Non-flammable. Non-combustible. If involved in a major fire, could evolve oxides of nitrogen, sulphur or hydrogen chloride.
<b>Speical Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn in confined spaces.
<b>Hazchem Code</b>	None Allocated
<b>Other Information</b>	Hazchem code has not been assigned.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Spills &amp; Disposal</b>	Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	No special precautions are necessary when handling sealed containers. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8. For personal protective equipment (PPE) and hygiene advice, refer Section 8.
<b>Conditions for Safe Storage</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	Do not inhale spray mist. If dusts are present, wear a class P1 dust mask.
<b>Personal Protective Equipment</b>	When preparing product for use wear elbow-length PVC gloves and face shield or goggles. Keep people and pets off treated areas until the spray solutions dried.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Showering at the end of the working day is recommended. After each day's use, wash contaminated clothing and safety equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Form</b>	Water dispersible granule.
<b>Appearance</b>	Beige Granules
<b>Odour</b>	Scorched vanilla
<b>Solubility in Water</b>	Disperses in water. 15 mg/l @ pH5 ; 1650 mg/l @ pH7
<b>pH Value</b>	7.9 (1% solution)
<b>Vapour Pressure</b>	<0.01mPa (25°C)
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is -0.0186
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	pKa is 3.44



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## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.  
**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** Not a likely route of exposure when handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.

**Ingestion** Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing of large amounts may cause injury.

**Skin** The concentrated product may cause slight irritation on contact.

**Eye** May cause some discomfort if contact is prolonged.

**Reproductive Toxicity** Data indicates no reproductive effects.  
Data indicates no teratogenic effects.

**Mutagenicity** Data indicates no mutagenic effects.

**Carcinogenicity** Data indicates no carcinogenic effects.

**Acute Toxicity - Oral** LD50 (rat, M/F) 2825/1947 mg/kg

**Acute Toxicity - Dermal** LD50 (rabbit) >2000 mg/kg

**Eye Irritation** Mild eye irritant.

**Skin Irritation** Not a skin irritant.

**Skin Sensitisation** Product is not a skin sensitiser.

**Other Information** The Australian Acceptable Daily Intake (ADI) for halosulfuron-methyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2005).

## 12. ECOLOGICAL INFORMATION

**Other Precautions** Do not graze any treated turf or feed turf clippings from any treated area to poultry or livestock.

**Environ. Protection** Spray drift should be avoided, read the label for more information. After spraying, the first flush irrigation tailwater or stormwater run-off from land treated with Sempra should be prevented from entering waterways. Where farms do not have the capacity to retain run-off, DO NOT irrigate to the point of run-off for at least 6 days after application.

**Acute Toxicity - Fish** LC50 (96 hr) for (carp) is 340 ppm  
The following is data for the active ingredient, halosulfuron-methyl.  
LC50 (96 hr) for (trout) is >120 mg/l.

**Acute Toxicity - Daphnia** LC50 (48hr) for (daphnia) is 170 ppm

**Acute Toxicity - Other Organisms** Birds: Not toxic to birds. LD50 for (bobwhite quail) is 2250 mg/kg  
Bees: Not toxic to bees. LD50 >100 µg/bee.  
Sempra is very highly toxic to duckweed.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect).



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**Container Disposal** Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill.  
If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.  
Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

**U.N. Number** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Poisons Schedule** S5

**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

## 16. OTHER INFORMATION

**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The MSDS was reviewed. Minor changes were made to the information.  
...End Of MSDS...