

Infosafe No™ 3NUAL	Issue Date : December 2018	ISSUED by NUFARMNZ
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 Product Name **SEMPRA®**

## 1. Identification

<b>GHS Product Identifier</b>	SEMPRA®
<b>Product Code</b>	00601
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nz.nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	For the control of nutsedge in maize crops and established turf grasses.
<b>Other Information</b>	This SDS 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. Hazard Identification

<b>Other Information</b>	6.1D acute toxicant, 6.4A eye irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation. May cause damage to the blood system from repeated oral exposure at high doses. ECOTOXIC Very toxic to aquatic organisms. Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.
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## 3. Composition/information on ingredients

<b>Chemical</b>	Solid		
<b>Characterization</b>			
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Halosulfuron - methyl	100784-20-1	750 g/kg
	Ingredients determined to be non-hazardous	-	Balance

## 4. First-aid measures

<b>First Aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance. Do not scrub the skin.
<b>Eye contact</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an

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<b>Advice to Doctor</b>	eyewash facility and safety shower. Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Non combustible. Non flammable. If involved in a major fire, could evolve oxides of nitrogen, sulphur or hydrogen chloride.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. This product must not be applied onto or into water.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100kg of SEMPRA are subject to signage, and more than 100kg require emergency response plans.
<b>Unsuitable Materials</b>	Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odour which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
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<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Hygiene Measures</b>	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Beige granules
<b>Odour</b>	Scorched vanilla
<b>Solubility in Water</b>	Disperses in water. 0.015g/L @ pH5; 1.65mg/L @ pH7 (20°C) for halosulfuron-methyl
<b>pH</b>	7.9 (1% solution)
<b>Vapour Pressure</b>	<0.01mPa (25°C) for halosulfuron-methyl
<b>Partition Coefficient: n-octanol/water</b>	Kow logP = -0.0186 (pH7, 23°C) for halosulfuron-methyl
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	(WG) Water Dispersible Granule

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	High temperatures.
<b>Incompatible Materials</b>	May react with strong bases, acids or strong oxidizing agents, such as chlorates, nitrates, peroxides. Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odour which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (mouse) 2,514mg/kg
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2,000 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) >5.7mg/L
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing of large amounts may cause injury.
<b>Inhalation</b>	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.
<b>Skin</b>	The concentrated product may cause slight irritation on contact.
<b>Eye</b>	May cause some discomfort if contact is prolonged.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects. Data indicates no teratogenic effects.
<b>Serious eye damage/irritation</b>	Mild eye irritant.

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<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin</b>	Not a skin irritant.
<b>corrosion/irritation</b>	
<b>Subchronic/Chronic Toxicity</b>	Target organ toxicant: blood system
<b>Other Information</b>	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, Office of Chemical Safety, 'ADI List', March 2013).

## 12. Ecological information

<b>Environmental Protection</b>	Avoid contamination of any water supply with product or empty container.
<b>Acute Toxicity - Fish</b>	LC50 (96h) rainbow trout >134mg/L
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) daphnia magna 166mg/L
<b>Acute Toxicity - Algae</b>	EC50 (72h) S. capricornutum 0.006mg/L
<b>Acute Toxicity - Other Organisms</b>	Birds: LD50 (bobwhite quail) >2,250mg/kg for halosulfuron-methyl Bees: LD50 (apis mellifera) oral/contact >100µg/bee for halosulfuron-methyl Worms: LD50 (Eisenia foetida)>1,000mg/kg soil for halosulfuron-methyl

## 13. Disposal considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (halosulfuron-methyl, 75%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	Do not carry more than 3kg of SEMPRA on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## 15. Regulatory information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P4427 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000514 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	HARMFUL * ECOTOXIC - keep out of reach of children



# Safety Data Sheet

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<b>Hazard Rating Systems</b>	NFPA/HMIS: 2-1-0
<b>Hazard Category</b>	HARMFUL * ECOTOXIC - Keep out of reach of children

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## 16. Other Information

**Date of preparation or last revision of SDS** December 2013

**Contact Person/Point** IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE  
24Hr Tollfree Emergency No: 0800 651 911  
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

**Revisions Highlighted** The SDS was reviewed due to a formulation change. Various changes have been made throughout this document.  
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