


Safety Data Sheet

Nirvana®

Date of issue: 30th March, 2011

1) Identification of Substance:		
Product name:	Nirvana	
Active Ingredient(s):	200g/litre glufosinate-ammonium SL	
ACVM Approval:	P8007	
ERMA Approval:	HSR100096	
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adriacp.co.nz	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
2) Hazards Identification:		
HSNO Classifications:	6.1E, 6.3A, 8.3A, 6.8B, 6.9A, 9.1C, 9.2B, 9.3C.	
Risk and safety phrases:	R21/R22, R36, R38, R48, R52, R56, R62	
3) Composition Details:		
Chemical identity:	Glufosinate-ammonium	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Glufosinate-ammonium	77182-82-2	20 %
4) First Aid Measures:		
General Information:		
Skin contact:	After contact with skin, wash immediately with soap and water.	
Eye contact:	If product or spray enters eyes, wash out immediately and continue rinsing with clean water for at least 15 minutes. Obtain medical attention.	
Ingestion:	If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.	
Inhalation:	Keep patient calm. Remove to fresh air and seek medical attention.	
Further Information:	Treatment: Treat according to symptoms (decontamination, vital functions). No known specific antidote.	

5) Fire-Fighting Measures:	
Specific hazards:	Specific hazards in a fire: carbon monoxide, hydrogen fluoride, nitrogen oxides.
Extinguishing media and methods:	Use water, foam, dry chemical, or carbon dioxide to extinguish fires.
Recommended protective clothing:	Wear SCBA and chemical-protective clothing.
6) Accidental Release Measures:	
Personal precautions:	Use protective clothing. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
Spill procedures:	Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.
7) Handling & Storage:	
Handling:	Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.
Storage:	Protect from temperatures above: 40 °C
8) Exposure Control / Personal Protection:	
Engineering measures:	
Respiratory protection:	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
Eye protection:	Safety goggles with side-shields.
Hand protection:	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Other protective equipment:	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Light brown
Odour:	Characteristic
Melting point/boiling point:	> 100 deg C
Density:	1,1 kg/L
Surface tension:	N/A
pH:	6,4 – 6,8
Flash point:	N/A
Ignition Temperature:	N/A
Explosive Limits:	N/A
10) Stability & Reactivity:	
Conditions to avoid:	Avoid excessive temperatures.
Materials to avoid:	-
Hazardous reactions:	Evolution of ammonia under influence of alkaline substances. Stable under normal conditions of use.
11) Toxicological Information:	
Acute oral toxicity:	LD ₅₀ 2 000 g/kg
Acute inhalation toxicity:	LC ₅₀ 1.26 mg/L
Acute dermal toxicity:	LD ₅₀ > 4 000 mg/kg
Skin irritation:	Not an irritant
Eye irritation:	Not an irritant
Sensitisation:	Should not cause sensitisation during normal use
12) Ecological Information:	
Acute fish toxicity:	LC ₅₀ 710 mg/L Rainbow trout
Toxicity for daphnia:	LC ₅₀ 560 – 1 000 mg/L
Toxicity to algae:	LD ₅₀ 1 000 mg/L
13) Disposal Considerations:	
Disposal: 	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.
14) Transportation Information:	
Rail/road (RID/ADR):	Not regulated
Sea (IMDG code):	Not regulated
Air (ICAO/IATA):	Not regulated
15) Regulatory Information:	
Approved handlers:	This product must be under the care of an approved handler.
ACVM controls:	See www.nzfsa.govt.nz/acvm/ for registration conditions.