


Safety Data Sheet

Nirvana®

Date of issue: 14th July, 2014

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| 1) Identification of Substance: | | |
| Product name: | Nirvana | |
| Active Ingredient(s): | 200g/litre glufosinate-ammonium SL | |
| ACVM Approval: | P8007 | |
| EPA 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 % |
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| 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. | |

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| 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. |

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| 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.foodsafety.govt.nz for registration conditions. |