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| Infosafe No™ 3NUME | Issue Date : October 2015 | ISSUED by NUFARMNZ |
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 Product Name **CORASIL®**

## 1. Identification

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| <b>GHS Product Identifier</b>                                  | CORASIL®   |
| <b>Product Code</b>  | 04463  |
| <b>Product Type</b>  | Plant Growth Regulator   |
| <b>Company Name</b>  | Nufarm NZ  |
| <b>Address</b>   | 6 Manu Street, Otahuhu<br>Auckland 2024 New Zealand  |
| <b>Telephone/Fax Number</b>                                    | Tel: 0-9-270 4150<br>Fax: 0-9-270 4159   |
| <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> | A plant growth regulator for the improvement of fruit size in oranges and mandarins.   |
| <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> | 3.1D flammable liquid, 6.1E acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1B aquatic toxicant, 9.2A soil toxicant<br>FLAMMABLE<br>Warning-combustible liquid.<br>TOXICITY<br>Harmful-may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye or skin irritation or sensitisation from prolonged skin contact. May cause damage to blood system from repeated oral exposure at high doses.<br>ECOTOXIC<br>Very toxic to aquatic organisms with long lasting effects.<br>Toxic to the soil environment. |
|--------------------------|--|

## 3. Composition/information on ingredients

|                                  |  |             |                   |
|----------------------------------|--|-------------|-------------------|
| <b>Chemical Characterization</b> | Liquid   |             |                   |
| <b>Ingredients</b>               | <u>Name</u>                                    | <u>CAS</u>  | <u>Proportion</u> |
|                                  | Dichlorprop-P (present as 2 ethyl hexyl ester) | 865363-39-9 | 25 g/L            |
|                                  | Liquid Hydrocarbon                             | 64742-94-5  | 773g/L            |

## 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.                                |
| <b>Eye contact</b>        | Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance.  |

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**First Aid Facilities** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Advice to Doctor** Treat symptomatically.  
If vomiting occurs, solvent present may cause pulmonary pneumonitis.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media** Do not use water in a jet.

**Hazards from Combustion Products** May emit toxic smoke and fumes if involved in fires or exposed to extreme heat.

**Special Protective Equipment for fire fighters** Full protective clothing and self-contained breathing apparatus.

**Specific Methods** Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.

**Hazchem Code** 2X

**Other Information** Location Certificate: Not applicable  
Hazardous Atmosphere Zone: Not applicable  
Number of Fire Extinguishers: 2 for 500L or more

## 6. Accidental release measures

**Spills & Disposal** Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.  
Prevent material from coming into contact with class 1,2,3.2,4 or 5 substances.  
Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

**Precautions for Safe Handling** Avoid skin and eye contact and inhalation of spray mist.  
APPROVED HANDLER: Not applicable  
TRACKING: Is not required  
RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more of CORASIL is applied within 24 hours.  
BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.  
Do not apply CORASIL onto or into water.

**Conditions for safe storage, including any incompatibilities** Keep out of reach of children.  
Do not store near heat or flame.  
Store in original container tightly closed and in a locked, dry, cool area away from sources of ignition, seeds, fertilisers and foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.  
Stores containing 1000L of CORASIL require secondary containment and are subject to signage, and more than 1000L require emergency response plans.  
Stores containing 500L must have at least 2 fire extinguishers.  
Do not store with HSNO Class 1,2,3.2,4 or 5 substances.

**Tank Cleaning** See label for detailed information on cleaning of spray equipment.

**Other Information** 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.

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## 8. Exposure controls/personal protection

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|---|--|
| <b>Occupational exposure limit values</b> | No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 15ppm TWA, as total hydrocarbon.  |
| <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, washable hat, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.  |
| <b>Hygiene Measures</b>                   | Do not eat, drink or smoke while using.<br>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately. |

## 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Form</b>                                   | Liquid   |
| <b>Appearance</b>                             | Pale yellow liquid   |
| <b>Odour</b>                                  | Typical aromatic odour   |
| <b>Solubility in Water</b>                    | Forms an emulsion in water.  |
| <b>Specific Gravity</b>                       | 0.915  |
| <b>pH</b>                                     | 6 - 8  |
| <b>Vapour Pressure</b>                        | 0.11 mPa (25°C, estimated for dichlorprop-P 2EHE)                  |
| <b>Partition Coefficient: n-octanol/water</b> | Kow Log P is 6.54 (25°C estimated for dichlorprop-P 2EHE)          |
| <b>Flash Point</b>                            | 64.5°C (cc)  |
| <b>Flammability</b>                           | Combustible.   |
| <b>Other Information</b>                      | (EC) Emulsifiable concentrate<br>Low temperature stability = <-5°C |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Stable under normal conditions of handling and storage. |
| <b>Possibility of hazardous reactions</b> | Keep away from strong oxidising agents.                 |
| <b>Hazardous Polymerization</b>           | Hazardous polymerisation will not occur.                |

## 11. Toxicological Information

|                                    |   |
|------------------------------------|---|
| <b>Toxicology Information</b>      | No specific toxicological data is available for this product. Data below is for constituents.   |
| <b>Acute Toxicity - Oral</b>       | LD50 (rat) is 3,800 mg/kg for a similar formulation   |
| <b>Acute Toxicity - Dermal</b>     | LD50 (rat) is >2,000 mg/kg for a similar formulation  |
| <b>Acute Toxicity - Inhalation</b> | LC50 (rat) (4hr) >5.12mg/L for a similar product  |
| <b>Ingestion</b>                   | Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.   |
| <b>Inhalation</b>                  | When applying the product as a spray avoid breathing in spray mist.<br>High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects. |
| <b>Skin</b>                        | Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.  |
| <b>Eye</b>                         | The concentrate may cause irritation after short contact with the eyes, but permanent damage is not anticipated.  |
| <b>Skin Sensitisation</b>          | Prolonged and repeated skin contact may result in skin sensitisation.   |
| <b>Chronic Effects</b>             | Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.  |

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| <b>Serious eye damage/irritation</b> | Irritant   |
| <b>Skin corrosion/irritation</b>     | Slight irritant.   |
| <b>Subchronic/Chronic Toxicity</b>   | May cause lung damage if swallowed.<br>Target organ toxicant (oral) - Blood and the hematopoietic system.  |
| <b>Other Information</b>             | The Australian Acceptable Daily Intake (ADI) for dichlorprop-P for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6 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', Dec 2014). |

## 12. Ecological information

|   |   |
|---|---|
| <b>Bioaccumulative Potential</b>        | Bioaccumulation is unlikely.  |
| <b>Other Precautions</b>                | Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.  |
| <b>Environmental Protection</b>         | Spray drift should be avoided, read the label for more information.   |
| <b>Basis for Assessment</b>             | Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.  |
| <b>Acute Toxicity - Fish</b>            | LC50 (96h) for rainbow trout is 11mg/L for dichlorprop 2EHE   |
| <b>Acute Toxicity - Daphnia</b>         | EC50 (48h) for daphnia magna is >1.5mg/L for dichlorprop-P 2EHE   |
| <b>Acute Toxicity - Algae</b>           | IC50 (72hr) Selenastrum capricornutum is 6.7 mg/l for dichlorprop-P 2EHE .<br>ErC50 (120h) for green algae is 6.7mg/kg for dichlorprop-P 2EHE   |
| <b>Acute Toxicity - Other Organisms</b> | LC50 (dietary) for bobwhite quail and mallard duck is >5,620mg/kg for dichlorprop-P<br>LC50 (14d) earthworm >1,000mg/kg for dichlorprop-P<br>Dichlorprop-P is practically non toxic to bees.<br>Dichlorprop-P 2EHE has low toxicity to non-target terrestrial animals and is non toxic to aquatic organisms at concentrations below solubility limit. |

## 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 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>                | 3082   |
| <b>UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (dichlorprop-P, 2.5%)  |
| <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 this product on a passenger service vehicle.<br>Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional |



# Safety Data Sheet

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segregation. Refer NZS5433 sea segregation for details.

## 15. Regulatory information

**National and or International Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P8075  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
**Packaging & Labelling** Approved pursuant to the HSNO Act 1996, Approval Code HSR008027  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.  
**Hazard Rating** WARNING - combustible liquid  
HARMFUL \* ECOTOXIC - keep out of reach of children  
**Systems** NFPA/HMIS: 2-2-1

## 16. Other Information

**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  
**Other Information** Supersedes SDS issued October 2010  
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