

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **AMIGO®**

Section 1 - Identification

Product Identifier	AMIGO®
Product Code	04275
Product Type	Adjuvant
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	A drift control agent with built in anti-foam that produces a more uniform spray pattern with fewer fine droplets and better spray deposition.
Other Information	This Safety Data Sheet (SDS) describes an experimental substance. Full identification or hazard information may not be known. In the absence of this information, always take a precautionary approach to storage and handling.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Skin sensitization: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H317 May cause an allergic skin reaction
Precautionary Statement – General	P103 Read label before use
Pictogram (s)	Exclamation mark



Precautionary Statement – Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement – Response	P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Phosphatidylcholine, methyl esters of fatty acids and alcohol ethoxylate	Proprietary	100%

Section 4 - First Aid Measures

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Skin	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Indication of immediate medical attention and special treatment needed if necessary	Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments: No specific treatment. Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Decontamination measures may be necessary. Personnel and equipment must be checked and decontaminated prior to leaving the area.
Most important symptoms/effects, acute and delayed	Potential acute health effects: Eye contact: May cause mild eye irritation. Inhalation: No known significant effects or critical hazards. Skin contact: May cause an allergic skin reaction. Ingestion: No known significant effects or critical hazards. Over-exposure by ingestion is unlikely under normal working conditions. Over-exposure signs/symptoms: Eye contact: Adverse symptoms may include redness and watering. Inhalation: No specific data Skin contact: Adverse symptoms may include irritation and redness. Ingestion: No specific data

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable Extinguishing Media	Do not use water jet.
Hazards from Combustion Products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Specific Methods	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Contain and collect the water used to fight the fire for later treatment and disposal.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Decomposition Temperature	Information is not available.

Section 6 - Accidental Release Measures

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Personal Protection	For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 'For nonemergency personnel'.
Clean-up Methods - Small Spillages	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Clean-up Methods - Large Spillages	Stop leak if without risk. Approach release from upwind. Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible. or Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

Section 7 - Handling and Storage

Precautions for Safe Handling	It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. CERTIFIED HANDLER : Is not required. TRACKING: Is not required. RECORD KEEPING: Is not required. Protective measures: Read label before use. Apply this product only as specified on the label. Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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.

Section 8 - Exposure Controls and Personal Protection

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Occupational Exposure Limits (OEL)	Exposure limits for diethylene glycol is TWA: 10 mg/m ³ 8 hours according to OARS WEEL (United States, 4/2022).
Biological Limit Values	No exposure indices known.
Other Exposure Information	Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Appropriate Engineering Controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Respiratory Protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Eye Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.
Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Personal Protective Equipment	Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose.
Footwear	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body Protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Olive green coloured viscous liquid.
Odour	Mild.
Decomposition Temperature	Information is not available.
Solubility in Water	Emulsifies.
Specific Gravity	0.992
pH	6 to 8 (Conc. (%w/w): 1%)
Vapour Pressure	Information is not available.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Partition Coefficient: n-octanol/water	Information is not available.
Flash Point	Closed cup: >100°C
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	0.985 to 1.005
Melting/Freezing Point	Information is not available.
Other Information	Bulk density = 8.3lb/gal

Section 10 - Stability and Reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	The product is stable.
Conditions to Avoid	Keep away from heat. Keep away from incompatible materials.
Incompatible Materials	Strong oxidizing materials, strong acids, strong alkalis.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (female rat) = >5,000 mg/kg
Acute Toxicity - Inhalation	LC50 (dusts and mists) (rat 4hr) = >2.08mg/L
Acute Toxicity - Dermal	LD50 (rabbit) = >5,000mg/kg
Ingestion	No known significant effects or critical hazards. Over-exposure by ingestion is unlikely under normal working conditions.
Inhalation	No known significant effects or critical hazards.
Skin Corrosion/Irritation	This product may cause skin irritation. Adverse symptoms may include irritation and redness.
Serious Eye Damage/Irritation	This product may cause mild eye irritation. Adverse symptoms may include redness and watering.
Respiratory Irritation	No known significant effects or critical hazards.
Respiratory Sensitisation	No known significant effects or critical hazards.
Skin Sensitisation	May cause an allergic skin reaction.

Infosafe No™ 3NV4C	Issue Date : October 2024	ISSUED by NUFARMNZ
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Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Repeated Exposure	Information is not available.
Aspiration Hazard	Information is not available.
Chronic Effects	Potential chronic health effects: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Section 12 - Ecological Information

Persistence and Degradability	Information is not available.
Mobility	Information is not available.
Bioaccumulative Potential	Kow LogP = -1.98, BCF = 100, bioaccumulative potential is low for diethylene glycol.
Other Adverse Effects	No known significant effects or critical hazards.
Environmental Protection	Harmful to aquatic life. Apply this product only as specified on the label.
Acute Toxicity - Fish	LC50 (96hr) (Pimephales promelas) 3900µg/l Fresh water for alcohol ethoxylate. LC50 (96hr) (Pimephales promelas) 75200000µg/l Fresh water for diethylene glycol.
Acute Toxicity - Daphnia	EC50 (48hr) (Daphnia magna) 2100µg/l Fresh water for alcohol ethoxylate.

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Not classified as Dangerous Goods for transport in New Zealand.
Other Information	Do not carry more than 10L of AMIGO on a passenger service vehicle.

Section 15 - Regulatory Information

National and or International Regulatory Information	This product does not require registration under the ACVM Act. Approved pursuant to the HSNO Act 1996, Approval Code HSR002503 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	January 2020.
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	Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...



Material Safety Data Sheet

infosafe
CS: 3.5.5

Page: 7 of 7

Infosafe No™ 3NV4C

Issue Date :October 2024

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