

## 1. Identification of Substance & Company

### Product

|                      |  |
|----------------------|--|
| Product name         | Squall   |
| Product code         | NA   |
| ACVM                 | exempt   |
| HSNO approval        | non hazardous  |
| Approval description | NA   |
| UN number            | NA   |
| Proper Shipping Name | NA   |
| DG class             | NA   |
| Packaging group      | NA   |
| Hazchem code         | NA   |
| Uses                 | Drift-reducing adjuvant for all cropping situations. Improves deposition and enhances rainfastness |

### Company Details

|            |  |
|------------|--|
| Company:   | <b>Arxada NZ Limited</b>                                     |
| Address:   | 13-15 Hudson Rd<br>Bell Block<br>New Plymouth<br>New Zealand |
| Telephone: | +64 6 755 9234   |
| Fax:       | +64 6 755 1174   |
| Website:   | www.arxada.co.nz   |
| Email:     | office-newplymouth@arxada.com                                |

**Emergency Telephone Number: 0800CHEMCALL (0800 243 622)**  
**International Emergency Phone: +64 4 917 9888**

## 2. Hazard Identification

### Approval

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO), according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

### GHS Classes Hazard Statements

none

### SYMBOLS

None

### Other Classifications

There are no other classifications that are known to apply.

### Precautionary Statements

|            |   |
|------------|---|
| Prevention | P102 – Keep out of reach of children  |
| Response   | none  |
| Storage    | none  |
| Disposal   | P501 - Dispose of contents/container in accordance with local/regional/national/international regulation. |

## 3. Composition / Information on Ingredients

| Component   | CAS/ Identification | Conc (%) |
|---|---------------------|----------|
| isopropanol   | 67-63-0             | 1-5%     |
| ingredients not contributing to GHS classes, includes a proprietary mixture of biodegradable polymers | mixture             | balance  |

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

## 4. First Aid

### General Information

Arxada NZ Limited has an emergency contact phone number: 0800 243 622, +64 4 917 9888  
If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

**Recommended first aid facilities** Ready access to running water is recommended.

### Exposure

**Swallowed** The product is not considered harmful if swallowed. In case of persistent symptoms, contact the National Poisons Centre or a Doctor.

**Eye contact** If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.

**Skin contact** Flush immediately with large amounts of water and wash with mild soap and water. Contact a doctor if experiencing symptoms

**Inhaled** Generally, inhalation of vapours is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

### Advice to Doctor

Treat symptomatically

## 5. Firefighting Measures

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.

**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder or water jet, sand.

**Unsuitable extinguishing substances:** Do not use a heavy water stream.

**Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

**Protective equipment:** No special measures are required.

**Hazchem code:** NA

## 6. Accidental Release Measures

**Containment** There is no current legal requirement for containment of this product. In all cases design storage to prevent discharge to storm water.

**Emergency procedures** Generally, the containers size will limit a large spill from occurring. If a significant spill occurs: Stop leak if safe or necessary. Isolate area. Collect spill, see below. Transfer to container for disposal. Dispose of according to guidelines below (Section 13).

**Clean-up method** This product is not considered flammable or ecotoxic. Small spills do not require any special clean up method. Larger spills (e.g., greater than 10kg) should be mopped up and collected.

**Disposal** Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

**Precautions** Material spilled on hard surface can present a serious slipping/falling hazard.

## 7. Storage & Handling

**Storage** Avoid storage of harmful substances with food. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.

**Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

## 8. Exposure Controls / Personal Protective Equipment

### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

| NZ Workplace Exposure Stds | Ingredient  | WES-TWA                      | WES-STEL                      |
|----------------------------|-------------|------------------------------|-------------------------------|
|                            | isopropanol | 400ppm, 983mg/m <sup>3</sup> | 500ppm, 1230mg/m <sup>3</sup> |

### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

### Personal Protective Equipment

|                    |   |
|--------------------|---|
| <b>General</b>     | Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken. |
| <b>Eyes</b>        | Protective eyewear is not normally necessary when using this product. However, it always prudent to use protective eyewear if splashes are likely.  |
| <b>Skin</b>        | Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time.   |
| <b>Respiratory</b> | Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred. Use an organic vapour cartridge with a dust/mist filter'. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.   |

### WES Additional Information

Not applicable

## 9. Physical & Chemical Properties

|   |                                    |
|---|------------------------------------|
| <b>Appearance</b>                         | colourless to light yellow liquid  |
| <b>Odour</b>                              | characteristic                     |
| <b>pH</b>                                 | solution: 8.17                     |
| <b>Vapour pressure</b>                    | no data                            |
| <b>Viscosity</b>                          | 170 Lv1 20rpm, 156 Lv1 30rpm       |
| <b>Boiling point</b>                      | no data                            |
| <b>Volatile materials</b>                 | no data                            |
| <b>Freezing / melting point</b>           | no data                            |
| <b>Solubility</b>                         | no data                            |
| <b>Specific gravity / density</b>         | 1.008g/cm <sup>3</sup>             |
| <b>Flash point</b>                        | >53°C (not maintaining combustion) |
| <b>Danger of explosion</b>                | no data                            |
| <b>Auto-ignition temperature</b>          | no data                            |
| <b>Upper &amp; lower flammable limits</b> | no data                            |
| <b>Corrosiveness</b>                      | non corrosive                      |

## 10. Stability & Reactivity

|   |  |
|---|--|
| <b>Stability</b>                          | Stable   |
| <b>Conditions to be avoided</b>           | Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Protect from freezing. |
| <b>Incompatible groups</b>                | Strong oxidisers, strong bases and acids   |
| <b>Substance Specific Incompatibility</b> | None known   |

**Hazardous decomposition products** Oxides of carbon  
**Hazardous reactions** none known

### 11. Toxicological Information

#### Summary

IF SWALLOWED: no known effect.  
 IF IN EYES: May cause slight irritation. Tears. Redness.  
 IF ON SKIN: not considered to be irritating to the skin.  
 IF INHALED: no known effects.  
 CHRONIC TOXICITY: no known effects.

#### Supporting Data

|                |   |  |
|----------------|---|--|
| <b>Acute</b>   | <b>Oral</b>                               | Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. Data considered includes: isopropanol 3600 mg/kg (mouse). |
|                | <b>Dermal</b>                             | Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg.   |
|                | <b>Inhaled</b>                            | Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h.  |
|                | <b>Eye</b>                                | The mixture is not considered to be an eye irritant.   |
|                | <b>Skin</b>                               | The mixture is not considered to be a skin irritant.   |
| <b>Chronic</b> | <b>Sensitisation</b>                      | No ingredient present at concentrations > 0.1% is considered a sensitizer.   |
|                | <b>Mutagenicity</b>                       | No ingredient present at concentrations > 0.1% is considered a mutagen.  |
|                | <b>Carcinogenicity</b>                    | No ingredient present at concentrations > 0.1% is considered a carcinogen.   |
|                | <b>Reproductive / Developmental</b>       | No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.                                 |
|                | <b>Systemic</b>                           | No ingredient present at concentrations > 1% is considered a target organ toxicant.  |
|                | <b>Aggravation of existing conditions</b> | None known.  |

### 12. Ecological Data

#### Summary

This mixture is not considered ecotoxic. In all cases prevent run-off to drains, sewers and waterways.

#### Supporting Data

|                                 |   |
|---------------------------------|---|
| <b>Aquatic</b>                  | Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is > 100 mg/L. |
| <b>Bioaccumulation</b>          | No evidence   |
| <b>Degradability</b>            | Not considered degradable, but will biodegrade.   |
| <b>Soil</b>                     | No evidence of soil toxicity.   |
| <b>Terrestrial vertebrate</b>   | Not considered ecotoxic towards terrestrial vertebrates (see acute toxicity)                              |
| <b>Terrestrial invertebrate</b> | No evidence of toxicity towards terrestrial invertebrates.  |
| <b>Biocidal</b>                 | no data   |

### 13. Disposal Considerations

|                               |  |
|-------------------------------|--|
| <b>Restrictions</b>           | There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.  |
| <b>Disposal method</b>        | Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority.   |
| <b>Contaminated packaging</b> | Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging. |

### 14. Transport Information

#### Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

|                     |    |                              |    |
|---------------------|----|------------------------------|----|
| <b>UN number:</b>   | NA | <b>Proper shipping name:</b> | NA |
| <b>Class(es)</b>    | NA | <b>Packing group:</b>        | NA |
| <b>Precautions:</b> | NA | <b>Hazchem code:</b>         | NA |

## 15. Regulatory Information

This substance is not considered to be hazardous under HSNO.  
All ingredients appear on the NZIoC.

### Specific Controls

Key workplace requirements are:

|                                 |   |
|---------------------------------|---|
| SDS                             | Not required (non hazardous), but best practice to have the SDS available.  |
| Inventory                       | An inventory of all hazardous substances must be prepared and maintained.   |
| Packaging                       | All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied |
| Labelling                       | Must comply with the Hazardous Substances (Labelling) Notice 2017.  |
| Emergency plan                  | Not required.   |
| Certified handler               | Not required.   |
| Tracking                        | Not required.   |
| Bunding & secondary containment | Not required.   |
| Signage                         | Not required.   |
| Location compliance certificate | Not required.   |
| Flammable zone                  | Not required.   |
| Fire extinguisher               | Not required.   |

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

## 16. Other Information

### Abbreviations

|                        |  |
|------------------------|--|
| <b>Approval Code</b>   | NA – non hazardous   |
| <b>CAS Number</b>      | Unique Chemical Abstracts Service Registry Number  |
| <b>EC<sub>50</sub></b> | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)  |
| <b>EPA</b>             | Environmental Protection Authority (New Zealand)   |
| <b>GHS</b>             | Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.   |
| <b>HAZCHEM Code</b>    | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters  |
| <b>HSNO</b>            | Hazardous Substances and New Organisms (Act and Regulations)   |
| <b>IARC</b>            | International Agency for Research on Cancer  |
| <b>LEL</b>             | Lower Explosive Limit  |
| <b>LD<sub>50</sub></b> | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).  |
| <b>LC<sub>50</sub></b> | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)  |
| <b>NZIoC</b>           | New Zealand Inventory of Chemicals   |
| <b>STEL</b>            | Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded  |
| <b>STOT RE</b>         | System Target Organ Toxicity – Repeated Exposure   |
| <b>STOT SE</b>         | System Target Organ Toxicity – Single Exposure   |
| <b>TWA</b>             | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)   |
| <b>UEL</b>             | Upper Explosive Limit  |
| <b>UN Number</b>       | United Nations Number  |
| <b>WES</b>             | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. |

### References

|                          |   |
|--------------------------|---|
| <b>Data</b>              | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).  |
| <b>Controls</b>          | EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a> |
| <b>WES</b>               | The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .                                     |
| <b>Other References:</b> | Suppliers SDS   |

### Review

|                 |                          |
|-----------------|--------------------------|
| <b>Date</b>     | Reason for review        |
| <b>May 2022</b> | Not applicable - New SDS |

### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: **+64 21 1040951**.

