# SAFETY DATA SHEET

Revision date: 13-Sep-2023



Product identifier

Product Name FRUIT AND VEGETABLE DRIED

Product Code(s) 00000034839

Other means of identification

Synonyms

Strawberry; Blueberry; Apple; Raspberry; Blackberry, Peach; Pear; Blackcurrant; Apricot; Cranberry; Broccoli; Asparagus; Carrot; Carrot Granules; Carrot Vegetable Powder; Onion; Onion Powder 41514; Onion Powder XLB; AAONI00001; Onion Powder Toasted; AAONI57680; Onion Minced 100; AAONI57640; Gooseberries; Cape Gooseberry; Chilli Powder; AACHI42000; Fennel Ground; AAFEN81200; Garlic Granules; Garlic Granules 8-16 Mesh; Garlic Granules Fine; Garlic Ganules Organic; Garlic Powder; AAGAR45700; Potato Flakes; Red Beetroot; Spinach Leaf Powder; Spinach Powder; AASPI00001; Paprika 100 Spanish ST; AAPAP69290

#### Recommended use of the chemical and restrictions on use

**Recommended use** Freeze dried, dried and powdered fruit/vegetables.

Uses advised against No information available

Details of the supplier of the safety data sheet

#### **Supplier**

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia Street Address: 166 Totara Street Mt Maunganui South New Zealand

Telephone Number: +64 9 309 2528 Facsimile: +64 9 0508 366 364

For further information, please contact

**Contact Point** 

Product Safety Department

Emergency telephone number

**Emergency Telephone** 

#### 0 800 734 607 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Based on available information, not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.





#### **GHS Classification**

SIGNAL WORD None

Label elements

Hazard statements

#### Other hazards which do not result in classification

May form combustible dust concentrations in air Dust can form an explosive mixture with air

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Chemical name	CAS No.	Weight-%
Ingredients determined not to be hazardous	-	100

## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.	
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26	
Inhalation	Remove to fresh air. Call a physician if symptoms occur.	
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.	
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

## 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

Suitable Extinguishing Media Fine water spray. Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media High volume water jet.

#### Specific hazards arising from the chemical

Specific hazards arising from the chemical	Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon. Dust can form an explosive mixture with air. Avoid generation of dust. Most organic dusts are combustible and according to the circumstances under which the combustion process
	occurs, such materials may cause fires and/or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (includingsecondary explosions). Dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount ofenergy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive
	Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts. Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large-scale explosions have resulted from chain reactions of this type. Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. A sudden release of statically charged materials from storage or process equipment, particularly at elevated temperatures and/ or pressure, may result in ignition especially in the absence of an apparent ignition source. One important effect of the particulate nature of powders is that the surface area and surface structure (and often moisture content) can vary widely from sample to sample, depending on how the powder was manufactured and handled which means that it is virtually impossible to use flammability data published in the literature for dusts. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazardous combustion products	Oxides of carbon.
Special protective actions for fire-f	ighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout Special protective equipment for fire-fighters

# gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Evacuate personnel to safe areas. Wash thoroughly after handling. Use personal protective equipment as required.
Other information	Ventilate the area.

For emergency responders	Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Remove ignition sources. Provide adequate ventilation. Keep out of drains, sewers, ditches and waterways. Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.	
Methods for cleaning up	Cover with damp absorbent(inert material, sand or soil). Vacuum or sweep material and place in a disposal container. Use non-sparking tools. Avoid generation of dust. Use personal protective equipment as required. Pick up and transfer to properly labelled containers.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling General hygiene considerations	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Avoid generation of dust. May form flammable dust clouds in air. Take precautionary measures against static discharges. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. Use personal protection equipment. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning
Conditions for safe storage, includ	of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Protect from sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep container closed when not in use.
Incompatible materials	Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Limits**

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulate(s):

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m3 (inhalable dust) or 3 mg/m3 (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

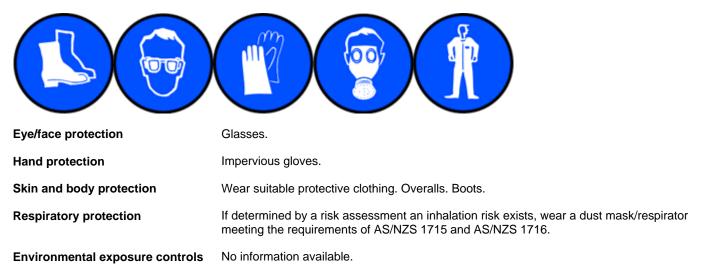
**Engineering controls** Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties\_\_\_\_\_ Physical state Freeze dried, dried, powdere

Physical state	Freeze dried, dried, powdered or granules fruit/vegetable (whole/diced/sliced)
Appearance	No information available
Color	Various
Odor	Characteristic
Odor threshold	No information available

Property_	Values	Remarks • Method
рН	Not Applicable	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	Not Applicable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	Not Applicable	None known
Water solubility	No data available	None known
Solubility(ies)	Insoluble in water	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

# **10. STABILITY AND REACTIVITY**

Reactivity

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Avoid exposure to heat, sources of ignition, and open flame. Dust formation. Direct sunlight.
Incompatible materials	
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	
Hazardous decomposition products Oxides of carbon.	

# **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

#### Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	May cause irritation. Dust contact with the eyes can lead to mechanical irritation.
Skin contact	May cause irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms	No information available.
Acute toxicity	
Numerical measures of toxicity	

No information available

#### See section 16 for terms and abbreviations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
Ecotoxicity	Avoid contaminating waterways.
Terrestrial ecotoxicity	There is no data for this product.

#### Persistence and degradability

Persistence and degradability	The material is biodegradable.	
Bioaccumulative potential		
Bioaccumulation	No information available.	
<u>Mobility</u>		
Mobility in soil	No information available.	
Other adverse effects		
Other adverse effects	No information available.	
13. DISPOSAL CONSIDERATIONS		
Waste treatment methods		

Waste from residues/unused products	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION			
ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.		
<u>IATA</u>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.		
IMDG	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.		

# **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

New Zealand			
National regulations	See section 8 for national exposure control parameters		
International Inventories	All the constituents of this material are listed on the New Zealand Inventory of Chemicals or		
	are exempt.		
TSCA	Contact supplier for inventory compliance status.		
DSL/NDSL	Contact supplier for inventory compliance status.		
EINECS/ELINCS	Contact supplier for inventory compliance status.		
ENCS	Contact supplier for inventory compliance status.		

IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	As a naturally occurring material this chemical is excluded from the Australian Industrial
	Chemicals Introduction Scheme (AICIS) registration requirements.

Legend:

NZIOC - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AllC- Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **16. OTHER INFORMATION**

Supplier Safety Data Sheet 01/2021

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).
Issuing Date:	13-Sep-2023
Reason(s) For Issue:	5 Yearly Revised Primary SDS

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)		
Ceiling	Maximum limit value	*	Skin designation		
С	Carcinogen				
	f				
	ferences and sources for data used to co	mplie the SDS	)		
	Substances and Disease Registry (ATSDR)				
	tal Protection Agency ChemView Database				
	Safety Authority (EFSA)				
·	ntal Protection Agency)				
Acute Exposure Guideline Level(s) (AEGL(s))					
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act					
U.S. Environmental Protection Agency High Production Volume Chemicals					
Food Research Journal					
Hazardous Substance Database					
International Uniform Chemical Information Database (IUCLID)					
Japan GHS Classification					
Australian Industrial Chemicals Introduction Scheme (AICIS)					

NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris and Australian Botanical Products.

End of Safety Data Sheet