

Section 1 - Identification

Product identifier:

Product Number: 12100301
Product Name: CRISPIOCA

Other means of identification:

Chemical family: Modified starch

Recommended use of the chemical and restrictions on use:

Recommended use: Food products
Restrictions on use: Not Available

Details of manufacturer or importer:

National Starch Pty Ltd
New Zealand Branch
Unit 5, 706 Great South Road
Penrose Auckland 1642
New Zealand
Tel: +64 9 582 0284 (business hours)

Emergency phone number:

CHEMTREC - Emergency Telephone (Medical & Transport Incident With Product- 7Days/24 Hours)
The global (outside US) number: +1 703-741-5970
Australia: +(61)-290372994
China: 4001-204937
Hong Kong: 800-968-793*
India: 000-800-100-7141*
Indonesia: 001-803-017-9114*
Japan: +(81)-3-4520-9637
Malaysia: +(60)-392125794, 1-800-815-308*
New Zealand: +(64)-98010034
Philippines: +(63) 2-395-3308, 1-800-1-116-1020*
Singapore: +(65)-31581349, 800-101-2201*
South Korea: +(82) 070-7686-0086, 00-308-13-2549*
Taiwan: +886-2-7741-4207*, 00801-14-8954*
Thailand: 001-800-13-203-9987*
Vietnam: +(84)-444581938
* Phone numbers for countries marked with an asterisk must be dialed within the country
SDS Requests and general information, please contact Local Customer Service: See phone numbers in Section 16

Classification of the hazardous chemical:**GHS Hazard Symbols:**

No hazard symbols required

GHS Classification:

Hazardous to the aquatic environment - Acute Category 3

Signal Word:

No signal word needed.

Hazard Statements:

H402 - Harmful to aquatic life.

Precautionary Statements:**Prevention:**

P273 - Avoid release to the environment.

Disposal:

P501 - Dispose of contents/container to a suitable disposal site in accordance with the Hazardous Substances (Disposal) Regulations 2001.

Hazards not otherwise classified:

None known.

Section 3 - Composition/information on ingredients**Substance:**

Not applicable

Mixture:

| Chemical Name | Common name and synonyms | CAS No. | Concentration (% by weight) |
|--------------------------|--------------------------|---------|-----------------------------|
| No hazardous components. | | | |

Section 4 - First-aid measures**Description of necessary first aid measures:**

Inhalation:

Remove to fresh air. Get medical attention if irritation persists.

Eye Contact:

Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms develop, obtain medical attention.

Skin Contact:

Wash skin with soap and water.

Ingestion:

None required.

Most important symptoms and effects, acute and delayed, caused by exposure:

Possible physical irritant from dust particles. Potential for dust explosion.

Medical attention and special treatment:

No further first aid information is available.

Section 5 - Fire-fighting measures

Suitable extinguishing equipment:

Suitable extinguishing media: Dry Chemical, CO₂, Water Fog, Foam

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical:

Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.

Hazardous combustion products:

This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

Special protective equipment and precautions for fire-fighters:

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required.

Environmental precautions:

No data available

Methods and materials for containment and cleaning up:

Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.

Section 7 - Handling and storage

Precautions for safe handling:

As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Keep container closed when not in use.

Static Sensitivity: Yes

Other precautions: Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.

Materials to Avoid/Chemical Incompatibility: None known

Section 8 - Exposure controls/Personal protection

Exposure control measures:

| Chemical Name | New Zealand - Occupational Exposure Standards - TWA | New Zealand - Occupational Exposure Standards - STEL | New Zealand - Occupational Exposure Standards - CEIL | New Zealand - Biological Exposure Limit - BEL |
|-------------------|---|--|--|---|
| No data available | | | | |

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m³.

Engineering controls: General.

Individual protection measures, for example personal protective equipment (PPE):

Respiratory protection: NIOSH approved dust mask.

Eye and face protection: Safety glasses recommended.

Skin protection: Skin protection may be required depending on product temperature.

Gloves: Gloves are not normally required for foreseeable conditions of use.

Other protective equipment: Not normally required. Not applicable.

General hygiene conditions: Wash before eating, drinking, or using toilet facilities.

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| Section 9 - Physical and chemical properties |
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Appearance (physical state, colour etc.):

Pure Substance or Mixture: Pure
 Physical State: Powder
 Colour: White

Odour: Starch

Odour Threshold: Not available

pH: Not available

pH in (1%) Solution: Approximately 4

Melting point/freezing point:

Melting Point: Not available
 Freezing point: Not available

Initial boiling point and boiling range: Not available

Flash Point: Not applicable

Flammability (solid, gas): No

Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available

| | |
|---|------------------|
| Lower flammability or explosive limits: | Not available |
| Vapour pressure: | Not available |
| Vapour density: | Not available |
| Relative density: | 1.5 |
| Solubility: | Soluble in water |
| Partition coefficient: n-octanol/water: | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Kinematic viscosity: | Not applicable |
| Particle Characteristics: | Not applicable |

Section 10 - Stability and reactivity

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|-------------------------------------|---|
| Reactivity: | Not expected to be reactive. |
| Chemical stability: | Stable |
| Possibility of hazardous reactions: | Hazardous polymerization will not occur. |
| Conditions to avoid: | None known |
| Incompatible materials: | None known |
| Hazardous decomposition products: | This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water. |

Section 11 - Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

| | |
|---|---|
| Information on possible routes of exposure: | Eye Contact, Skin Contact, Inhalation, Ingestion |
| Target Organs Potentially Affected By Exposure: | Not applicable. |
| Early onset symptoms related to exposure: | No data available |
| Toxic Effects: | This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended. |
| Exposure levels and health effects: | |
| Acute toxicity: | |
| Ingestion Toxicity: | Based on available data, the GHS classification criteria are not met. |
| Acute toxicity - Dermal: | Based on available data, the GHS classification criteria are not met. |
| Inhalation Toxicity: | Based on available data, the GHS classification criteria are not met. |

| | |
|--|--|
| Skin corrosion/irritation: | Wash skin with soap and water. Unlikely to cause harmful effects under recommended conditions of handling and use. |
| Serious eye damage/irritation: | Based on available data, the GHS classification criteria are not met. |
| Respiratory sensitisation: | Based on available data, the GHS classification criteria are not met. |
| Skin sensitisation: | Based on available data, the GHS classification criteria are not met. |
| Germ cell mutagenicity: | Based on available data, the GHS classification criteria are not met. |
| Carcinogenicity: | No. |
| Reproductive Toxicity: | Based on available data, the GHS classification criteria are not met. |
| Specific Target Organ Toxicity (STOT)-single exposure: | Based on available data, the GHS classification criteria are not met. |
| Specific Target Organ Toxicity (STOT) -repeated exposure: | Based on available data, the GHS classification criteria are not met. |
| Aspiration hazard: | Based on available data, the GHS classification criteria are not met. |

Numerical measures of toxicity (such as acute toxicity estimates):

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|-----------|-------------|-----------------|
| There is no known toxicity data available for the components or the product. | | | |

Section 12 - Ecological information

Ecotoxicity: No information available.

Ecological Toxicity Data:

| Chemical Name | CAS No. | Aquatic LC50 Fish | Aquatic ERC50 Algae | Aquatic EC50 Crustacea |
|-------------------|---------|-------------------|---------------------|------------------------|
| No data available | | | | |

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: Unknown

Other adverse effects: None known.

Section 13 - Disposal considerations

Disposal methods: Disposal should be in accordance with local, state or national legislation.

Empty container warnings: Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

Section 14 - Transport information

UN number: Not applicable
UN Proper shipping name: Not applicable
UN dangerous goods class and subsidiary: Not applicable
UN Packing group: Not applicable
Toxic Inhalation Hazard Zone: No data available

Environmental hazards (e.g., Marine pollutant): No data available
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): No data available
HAZCHEM Code: No data available
Special precautions for user: Consult IMO regulations before transporting in bulk by ocean.

Section 15 - Regulatory information

Safety, health and environmental regulations:

TSCA Status: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

FDA 21CFR172.892

New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID)

| Chemical Name | CAS No. | New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID) |
|-------------------|---------|--|
| No data available | | |

New Zealand Inventory of Chemicals (NZIOC)

| Chemical Name | CAS No. | New Zealand Inventory of Chemicals (NZIOC) |
|-------------------|---------|--|
| No data available | | |

New Zealand - Priority List of Hazardous Substances

| Chemical Name | CAS No. | New Zealand - Priority List of |
|---------------|---------|--------------------------------|
| | | |

| | | Hazardous Substances |
|-------------------|--|----------------------|
| No data available | | |

Montreal Protocol on Substances that Deplete the Ozone Layer

| Chemical Name | CAS No. | Montreal Protocol on Substances that Deplete the Ozone Layer |
|-------------------|---------|--|
| No data available | | |

Stockholm Convention on Persistent Organic Pollutants

| Chemical Name | CAS No. | Stockholm Convention on Persistent Organic Pollutants |
|-------------------|---------|---|
| No data available | | |

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

| Chemical Name | CAS No. | Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade |
|-------------------|---------|--|
| No data available | | |

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal

| Chemical Name | CAS No. | Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal |
|-------------------|---------|---|
| No data available | | |

Section 16: Other information

Revision Date: 08-04-2023
Supersedes: 02-13-2023
Revision Number: 5
Reason for revision: New
Key abbreviations or acronyms used: CAS = Chemical Abstract Service

DNEL= Derivative No Effect Level

EC= European Community

EINECS = European Inventory of Existing Chemical Substances

MSHA = Mine Safety Health Administration

NIOSH = National Institute of Occupational Safety & Health

OEL = Occupational Exposure Limit

PBT= Persistent, Bioaccumulative, Toxic

PNEC= Predicted No Effect Concentration

SCOEL= Scientific Committee on Occupational Exposure Limits

TLV = Threshold Limit Value

TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

For Information Contact:

New Zealand: Ingredion ANZ Pty Ltd

Customer Service : +64-9-5820284 (Business Hours)

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