

## Section 1 - Identification

### Product identifier:

Product Number: 32110112  
Product Name: N-ZORBIT(TM) 2144

### 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:

Ingredion ANZ Pty Ltd  
Suite 3.02 level 3, Building 1,  
Riverview Business Park,  
3 Richardson Place, North Ryde NSW 2113  
Tel : +612 9911 1200 (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  
India: 000-800-100-7141\*  
Indonesia: 001-803-017-9114\*  
Japan: +(81)-3-4520-9637  
Malaysia: +(60)-392125794  
New Zealand: +(64)-98010034  
Philippines: +(63) 2-395-3308, 1-800-1-322-0553\*  
Singapore: +(65)-31638374, 800-101-2201\*  
South Korea: +(82) 070-7686-0086, 080-880-0454\*  
Taiwan: +886-2-7741-4207\*, 00801-49-1821\*  
Thailand: 1800014808\*  
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:**

Not classified by GHS criteria

**Signal Word:**

No Signal Word needed.

**Hazard Statements:**

No Hazard Statement needed.

**Precautionary Statements:**

No Precautionary Statement needed.

**Australia Supplemental Hazard Information:**

No data available

**Hazards not otherwise classified:**

None known.

**% unknown toxicity (Oral):**

100 % of the mixture consists of ingredients of unknown toxicity

**% unknown toxicity (Dermal):**

100 % of the mixture consists of ingredients of unknown toxicity

**Section 3 - Composition and information on ingredients**

Chemical Name	CAS No.	Concentration (% by weight)
Not classified as hazardous.		

**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.

**Symptoms 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 - Firefighting 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 firefighters:**

No special procedures are required.

**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:

Use care to minimize dust generation in normal use conditions.

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

Materials to Avoid/Chemical Incompatibility:

None known

**Section 8 - Exposure controls and Personal protection**

**Exposure control measures:**

Chemical Name	Australia - Occupational Exposure Standards - TWAs (ppm)	Australia - Occupational Exposure Standards - STELs (ppm)
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.

**Thermal hazards:** Not available

**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.

**Section 9 - Physical and chemical properties**

**Appearance (physical state, color etc.):**

Pure Substance or Mixture: Pure  
 Physical State: Powder  
 Colour: Off-white

**Odour:** Starch

**Odour Threshold:** Not available

**pH:** Not available

**pH in (1%) Solution:** Approximately 5

**Melting point/freezing point:**

Melting Point: Not available  
 Freezing point: Not available

**Initial boiling point and boiling range:** Not available

**Flash Point:** Not applicable

**Evaporation Rate:** 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

<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.5
<b>Solubility:</b>	Slightly soluble
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not applicable
<b>Volatiles:</b>	None
<b>Volatile Organic Chemicals:</b>	Not applicable
<b>Other Information:</b>	
<b>Particle Characteristics:</b>	Not applicable
<b>Particle size:</b>	Not applicable
<b>Shape and aspect ratio:</b>	Not applicable
<b>Size distribution:</b>	Not applicable
<b>Surface area:</b>	Not applicable
<b>Heat of decomposition:</b>	Not applicable
<b>Specific heat value:</b>	Not applicable
<b>Saturated vapour concentration:</b>	Not applicable
<b>Release of invisible flammable vapours and gases:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Dustiness:</b>	Not applicable
<b>Degree of aggregation or agglomeration, and dispersibility:</b>	Not applicable
<b>Redox potential:</b>	Not applicable
<b>Biodurability or biopersistence:</b>	Not applicable
<b>Surface coating or chemistry:</b>	Not applicable

## Section 10 - Stability and reactivity

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

<b>Section 11 - Toxicological information</b>
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**Description of the various toxicological (health) effects and the available data used to identify those effects:**

<b>Information on possible routes of exposure:</b>	Ingestion, Inhalation, Skin Contact, Eye Contact
<b>Target Organs Potentially Affected By Exposure:</b>	Not applicable.
<b>Early onset symptoms related to exposure:</b>	No data available
<b>Toxic Effects:</b>	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
<b>Exposure levels and health effects:</b>	
<b>Acute toxicity:</b>	
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.
<b>Skin corrosion/irritation:</b>	Low order of toxicity. Unlikely to cause harmful effects under recommended conditions of handling and use.
<b>Serious eye damage/irritation:</b>	No evidence of irritant effects from normal handling and use.
<b>Respiratory sensitisation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Skin sensitisation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Germ cell mutagenicity:</b>	No.
<b>Reproductive Toxicity:</b>	Based on available data, the GHS classification criteria are not met.
<b>Carcinogenicity:</b>	No.
<b>Specific Target Organ Toxicity (STOT)-single exposure:</b>	Based on available data, the GHS classification criteria are not met.
<b>Specific Target Organ Toxicity (STOT) -repeated exposure:</b>	Based on available data, the GHS classification criteria are not met.
<b>Aspiration hazard:</b>	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

**ADG Classification:** Not regulated

**UN number:** Not applicable

**Proper shipping name or technical name:** Not applicable

**Transport hazard class:** Not applicable

**Packing group:** Not applicable

**Toxic Inhalation Hazard Zone:** No data available

**Environmental hazards for transport purposes:** 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.

<b>Section 15 - Regulatory information</b>
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**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.

This material is not on the TSCA Inventory. It is excluded under the Food, Drug, and Cosmetic Act.

**FDA**

21CFR172.892

**Agricultural and Veterinary Chemicals Code Act 1994 (Commonwealth)**

Chemical Name	CAS No.	Australia - Agricultural and Veterinary Chemicals (Administration) Regulations - Schedule 1 - Part 2	Australia - Agricultural and Veterinary Chemicals (Administration) Regulations - Schedule 1 - Part 3
No data available			

**Australia Dangerous Goods**

Chemical Name	CAS No.	Australia - Dangerous Goods Code - ADG - Hazard Classifications	Australia - Dangerous Goods Code - ADG - Regulated Substances
No data available			

**Industrial Chemicals (Notification and Assessment) Act 1989 (AICS)**

Chemical Name	CAS No.	Inventory - Australia - Inventory of Chemical Substances (AICS) - Comparable Chemicals	Inventory - Australia - Inventory of Chemical Substances (AICS) - Excluded Use Chemicals
No data available			

**Inventory - Australia - Inventory of Industrial Chemicals (AIIC)**

Chemical Name	CAS No.	Inventory - Australia - Inventory of Industrial Chemicals (AIIC)
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 - Any other relevant information**

**Revision Date:** 08-06-2024

**Supersedes:** 08-04-2023

**Revision Number:** 5

**Reason for revision:** New

**FOR INFORMATION CONTACT:** Australia: Ingredion ANZ Pty Ltd  
Customer Service : +61-2-9911 1200 (business hours)

**Disclaimer:**

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# Safety Data Sheet

N-ZORBIT(TM) 2144

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