

N-ZORBIT 2144 DG

Section 1 - Identification

Product identifier:

Product Number: 32110113

Product Name: N-ZORBIT 2144 DG

plating agent

Other means of identification:

Chemical family: Carbohydrate

Recommended use of the chemical and restrictions on use:

Recommended use: Food ingredient

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 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



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Classification of the hazardous chemical:

GHS Hazard Symbols:

No hazard symbols required

GHS Classification: Not classified as hazardous in accordance with the Hazardous

Substances and New Organisms Act

Signal Word: No signal word needed.

Hazard Statements: No Hazard Statement needed.

Precautionary Statements: No Precautionary Statement needed.

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.

Not considered as hazardous.

Medical attention and special

treatment:

No further first aid information is available.



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Section 5 - Fire-fighting measures

Suitable extinguishing equipment:

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

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:

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. Prohibit smoking and open flames. Avoid

sparks or other sources of static electricity.

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: Store in a clean, dry, well ventilated warehouse away from odorous

materials.

Static Sensitivity: Yes

No special sensitivity.

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.

Mechanical handling of the powder on inadequately grounded equipment

can result in static electrical discharges.



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Materials to Avoid/Chemical

None known

Incompatibility:

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: Wear safety glasses.

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

Gloves: Gloves are recommended due to possible irritation.

Other protective equipment: Not applicable.

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

Section 9 - Physical and chemical properties

Appearance (physical state, colour etc.):

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

Odour Threshold:

pH:

Not available

Not available

pH in (1%) Solution:

Approximately 5

Melting point/freezing point:

Melting Point:

Freezing point:

Not available

Not available



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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: No data available Soluble in water Solubility: Partition coefficient: n-octanol/water: Not available Not available **Auto-ignition temperature: Decomposition temperature:** Not available Kinematic viscosity: Not available **Particle Characterstics:** Not applicable

Section 10 - Stability and reactivity

Reactivity: Not expected to be reactive.

Chemical stability: Stable

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid:

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:

Ingestion, Inhalation, Skin Contact, Eye Contact

Target Organs Potentially Affected By

Exposure:

None known.

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.



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Exposure levels and health effects:

Acute toxicity:

Ingestion Toxicity:

Acute toxicity - Dermal:

Based on available data, the GHS classification criteria are not met.

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Skin corrosion/irritation: Low order of toxicity. Unlikely to cause harmful effects under

recommended conditions of handling and use.

Serious eye damage/irritation:

Respiratory sensitisation:

Based on available data, the GHS classification criteria are not met.

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Carcinogenicity: No.

Reproductive Toxicity:Based on available data, the GHS classification criteria are not met. **Specific Target Organ Toxicity**Based on available data, the GHS classification criteria are not met.

(STOT)-single exposure:

Specific Target Organ Toxicity (STOT) Based on available data, the GHS classification criteria are not met.

-repeated exposure:

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: Unknown.

Mobility in soil: Unknown



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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:
UN Proper shipping name:
Not applicable
Not applicable
UN dangerous goods class and
Not applicable

subsidiary:

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.

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

Chemical Name	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)



Revision Date:

Safety Data Sheet

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No data available		
New Zealand - Priority List of Haza	ırdous Substances	
Chemical Name	CAS No.	New Zealand - Priority List of Hazardous Substances
No data available		
Montreal Protocol on Substances t	hat Deplete the Ozone La	yer
Chemical Name	CAS No.	Montreal Protocol on Substances that Deplete the Ozone Layer
No data available		
Stockholm Convention on Persiste	nt Organic Pollutants	
Chemical Name	CAS No.	Stockholm Convention on Persistent Organic Pollutants
No data available		
Rotterdam Convention on the Prior Pesticides in International Trade	Informed Consent Proce	edure for Certain Hazardous Chemicals and
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 Moveme	ents 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		
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Section 16: Other information		

08-06-2024



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Supercedes: 02-13-2023

Revision Number: 4
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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