

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Product Number: 32110113  
Product Name: N-ZORBIT 2144 DG  
plating agent

### Other means of identification:

Chemical family: Carbohydrate  
REACH Registration Number:

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified use: Food ingredient

Uses advised against: Not Available

### 1.3 Details of the supplier of the safety data sheet:

Ingredion India Pvt Ltd  
Unit no 1502E, 15th Floor, Rupa Renaissance,  
Plot no D-33, D207 Juinagar MIDC Road,  
TTC Industrial Area, Navi Mumbai 400705  
Maharashtra, India  
Tel: +91 22 6820 0600 (business hours)

### 1.4 Emergency telephone 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  
No data available

### Authorised Representative for REACH Registration:

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

#### Classification according to GHS

Not classified as hazardous in accordance with GHS Regulation.

**Regulation:**

**2.2 Label elements:**

**Hazard pictograms:** No hazard symbols required

**Signal word:** No signal word needed.

**Hazard statements:** No Hazard Statement needed.

**Precautionary statements:** No Precautionary Statement needed.

**Supplemental Hazard information (EU):** No Supplemental Hazard Information available

**2.3 Other hazards:** None known.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances:**

Not applicable

**3.2 Mixtures:**

Substance Name	Concentration (% by weight)	CAS No.	REACH Registration Number
No hazardous components.			

**SECTION 4: First aid measures**

**4.1 Description of 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.

**Self protection of the first aider:** No data available

**4.2 Most important symptoms and effects, both acute and delayed:** Possible physical irritant from dust particles. Potential for dust explosion. Not considered as hazardous.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further first aid information is available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

Suitable extinguishing media: CO<sub>2</sub>, Dry Chemical, Foam, Water Fog

Unsuitable extinguishing media: None known.

### 5.2 Special hazards arising from the substance or mixture:

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.

### 5.3 Advice for firefighters:

No special procedures are required.

## SECTION 6: Accidental release measures

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

Non-emergency personnel:

Emergency responders: Use personal protective equipment as required.

### 6.2 Environmental precautions:

Not available

### 6.3 Methods and material 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.

### 6.4 Reference to other sections:

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

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

### 7.2 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.

Materials to Avoid/Chemical Incompatibility:

None known

**7.3 Specific end use(s):**

Food ingredient

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

Substance Name	India - Permissible Exposure Limits - TWAs	India - Permissible Exposure Limits - STELs	India - Permissible Exposure Limits - CEILs
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup>.

**DNEL:** None known.

**PNEC:** None known.

### 8.2 Exposure controls:

**Appropriate engineering controls:** General.

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

**Eye/face protection:** Wear safety glasses.

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

**Hand protection:** Gloves are recommended due to possible irritation.

**Respiratory protection:** NIOSH approved dust mask.

**Thermal hazards:** Not available

**Environmental exposure controls:**

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Pure Substance or Mixture:

Pure

Physical state:

Powder

Colour:

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
<b>Boiling point or initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability:</b>	No
<b>Upper/lower flammability or explosive limits:</b>	
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>Density and/or relative density:</b>	No data available
<b>Solubility:</b>	Soluble in water
<b>Partition coefficient n-octanol/water (log value):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Volatiles:</b>	None
<b>Volatile Organic Chemicals:</b>	Not available
<b>Kinematic viscosity:</b>	Not available
<b>Particle characteristics:</b>	Not applicable
<b>9.2 Other information:</b>	
<b>Molecular Weight:</b>	Not available

## SECTION 10: Stability and Reactivity

<b>10.1 Reactivity:</b>	Not expected to be reactive.
<b>10.2 Chemical stability:</b>	Stable
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>10.4 Conditions to avoid:</b>	None known
<b>10.5 Incompatible materials:</b>	None known
<b>10.6 Hazardous decomposition products:</b>	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

<b>Information on possible routes of exposure:</b>	Ingestion, Inhalation, Skin Contact, Eye Contact
<b>Target Organs Potentially Affected By Exposure:</b>	None known.
<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>	Based on available data, the GHS classification criteria are not met.
<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>	Based on available data, the GHS classification criteria are not met.
<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):**

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

**SECTION 12: Ecological information**

**12.1 Toxicity:** No information available.

**Ecological Toxicity Data:**

Substance Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

**12.2 Persistence and degradability:** No data available

**12.3 Bioaccumulative potential:** Unknown.

**12.4 Mobility in soil:** Unknown

**12.5 Results of PBT and vPvB assessment:**

**12.6 Endocrine disrupting properties:** None known.

**12.7 Other adverse effects:** None known.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment 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**

**DOT Classification:** Not regulated

**14.1 UN number:** Not applicable

**14.2 UN proper shipping name:** Not applicable

**14.3 Transport hazard class(es):** Not applicable

**14.4 Packing group:** Not applicable

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

**14.5. Environmental hazards:** No data available

**14.6 Maritime transport in bulk according to IMO instruments:** No data available

**14.7 Special precautions for user:** Consult IMO regulations before transporting in bulk by ocean.

**SECTION 15: Regulatory information**

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

**TSCA Status:** This product is manufactured in compliance with all provisions of the Toxic



# Safety Data Sheet

N-ZORBIT 2144 DG

Substances Control Act, 15 U.S.C. 2601 et. seq.

## India - Ozone Depleting Substances - Schedule I:

Substance Name	CAS No.	India - Ozone Depleting Substances - Schedule I
No data available		

## India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals:

Substance Name	CAS No.	India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals
No data available		

## SECTION 16: Other information

**Revision Date:** 08-06-2024  
**Supersedes:** 11-20-2022  
**Revision Number:** 3  
**Reason for revision:** New  
**For Information Contact** India:  
INGREDION INDIA PVT LTD  
Customer Service: +91 22 6820 0600  
**Hazard statements:** No Hazard Statement needed.  
**Precautionary statements:** No Precautionary Statement needed.

### Disclaimer:

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