

**SECTION 1. Identification of the hazardous chemical or mixture and of the supplier or manufacturer****Name of the dangerous chemical or mixture:**

Product number: 32110113  
Product name: N-ZORBIT 2144 DG  
plating agent

**Other means of identification:**

Chemical family: Carbohydrate

**Recommended use of the hazardous chemical or mixture, and restrictions of use:**

Recommended use: Food ingredient  
Restrictions on use: Not Available

**Details of the supplier or manufacturer:**

Ingredion Mexico, S.A. of C.V.  
Corporate Andares Tower Paseo  
Blvd. Puerta de Hierro #5153, Floor 22  
Col. Fracc. Plaza Andares, C.P. 45116, Zapopan, Jalisco  
Telephone: +52 (33) 3884-9000 (business hours)  
Phone number in case of emergency: Emergency Phone: 800-681-9531 (CHEMTREC) +1-703-741-5970  
(Global CHEMTREC)

**SECTION 2. Identification of the hazards****Classification of the hazardous chemical or mixture, according to the GHS:**

GHS Classification: Not classified as hazardous in accordance with NOM-018-STPS-2015

**Elements of signaling, including precautionary advice and precautionary pictograms:****Symbols:**

No hazard symbols required

**Word of warning:**

No signal word needed.

**Indication of danger:**

No Hazard Statement needed.

**Precautionary Statements:**

No Precautionary Statement needed.

**Other hazards that do not contribute to the classification:**

None known.

**SECTION 3. Composition / information on the components****For substances:**

Not applicable

**For mixtures:**

Chemical identity of the substance	CAS number	Concentration or concentration ranges
None classified as hazardous under the GHS regulations		

## SECTION 4. First aid

### Description of first aid:

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 and most important effects, acute and chronic:

Possible physical irritant from dust particles. Potential for dust explosion. Not considered as hazardous.

### Indication of the need to receive immediate medical attention and, where appropriate, special treatment:

No further first aid information is available.

## SECTION 5. Fire-fighting measures

### Appropriate extinguishing media:

Suitable extinguishing media:	Carbon dioxide, Dry Chemical, Foam, Water Fog
Unsuitable extinguishing media:	None known.

### Specific hazards of hazardous chemical substances or mixtures:

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 measures to be followed by fire fighting groups:

No special procedures are required.

## SECTION 6. Measures to be taken in case of accidental spillage or accidental leakage

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

Use personal protective equipment as required.

### Precautions relating to the environment:

Not available

**Methods and materials for the containment and cleaning of spills or leaks:**

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 that must be taken to ensure safe handling:**

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

**Conditions of safe storage, including any incompatibility:**

Conditions for safe storage: Store in a clean, dry, well ventilated warehouse away from odorous materials.

Sensitivity to Static Electricity: 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

**SECTION 8. Exposure controls / personal protection**
**Control parameters:**

Chemical identity of the substance	Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs)	Mexico - Occupational Exposure Limits - STELs (LMPE-CTs)	Mexico - Occupational Exposure Limits - Ceilings (LMPE-Pico)	Mexico - Occupational Exposure Limits - BEIs (IBE)
No data available				

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

**Appropriate technical controls:** General.

**Individual protection measures, such as personal protective equipment, PPE:**

**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.

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

**Thermal hazards:** Not available

## SECTION 9. Physical and chemical properties

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

Pure Substance or Mixture: Pure  
Physical state: Powder  
Color: White

**Odor:** Starch

**Odor threshold:** Not available

**Hydrogen potential, pH:** Not available

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

### Melting point / freezing point:

Melting point: Not available  
Freezing point: Not available

**Initial 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 limit of flammability or  
explosiveness: Not available  
Lower limit of flammability or  
explosiveness: Not available

**Vapor pressure:** Not available

**Vapor density:** Not available

**Relative density:** No data available

**Solubility(s):** Soluble in water

**N-octanol / water partition coefficient:** Not available

**Spontaneous ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**Volatiles:** None

**Volatile Organic Chemicals (VOC):** Not available

**Other relevant information:**

**Molecular weight:** Not available

## SECTION 10. Stability and reactivity

**Reactivity:** Not expected to be reactive.

<b>Chemical stability:</b>	Stable
<b>Possibility of dangerous reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to be avoided:</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.

## SECTION 11. Toxicological information

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

<b>Information about the probable intake routes:</b>	Ingestion, Inhalation, Skin Contact, Eye Contact
<b>Target Organs Potentially Affected by Exposure:</b>	None known.
<b>Symptoms related to physical, chemical and toxicological characteristics:</b>	No data available
<b>Toxic effects:</b>	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.

**Immediate and delayed effects, as well as chronic effects produced by a short or long term exposure:**

### 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:

Low order of toxicity. Unlikely to cause harmful effects under recommended conditions of handling and use.

### Eye Damage / Irritation:

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

### Respiratory Sensitization:

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

### Skin Sensitization:

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

### Mutagenicity:

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

### Reproductive and Developmental Toxicity:

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

### Carcinogenicity:

There are no known adverse effects.

### STOT- single exposure:

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

### 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 estimates of acute toxicity):**

Chemical identity of the substance	LD50 Oral	LD50 Dermal	LC50 Inhalation
There is no known toxicity data available for the components or the product			

**Interactive effects:** No data available

**SECTION 12. Ecotoxicological information**

**Toxicity:** No information available.

**Ecological Toxicity Data:**

Chemical identity of the substance	CAS number	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

**Persistence and degradability:** No data available

**Bioaccumulation potential:** Unknown.

**Mobility in soil:** Unknown

**Other adverse effects:** None known.

**SECTION 13. Information regarding the disposal of the products**

**Description of the waste and information on how to handle it safely and its disposal methods , including the disposal of contaminated containers:** 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

**UN number:** Not applicable

**Official transportation designation of the United Nations:** Not applicable

**Class (s) of transportation hazards:** Not applicable

**Packing group, if applicable:** Not applicable

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

**Environmental risks:** No data available  
**Transport in bulk according to Annex II of MARPOL 73/78 and to the IBC Code (IBC ).:** No data available  
**Special precautions for the user:** Consult IMO regulations before transporting in bulk by ocean.

## SECTION 15. Regulatory information

Specific provisions on safety, health and the environment for hazardous chemical substances or mixture in question:

### Mexico - Pollutant Release and Transfer Register

Chemical identity of the substance	CAS number	Reporting Emissions - Threshold Quantities	Reporting Emissions for Manufacturing, Process or Use -Threshold Quantities
No data available			

### Mexico - National Inventory of Chemical Substances (INSQ).

Chemical identity of the substance	CAS number	Mexico - National Inventory of Chemical Substances (INSQ).
No data available		

### Montreal Protocol on Substances that Deplete the Ozone Layer

Chemical identity of the substance	CAS number	Montreal Protocol on Substances that Deplete the Ozone Layer
No data available		

### Stockholm Convention on Persistent Organic Pollutants

Chemical identity of the substance	CAS number	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 identity of the substance	CAS number	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 identity of the substance	CAS number	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.
No data available		

**SECTION 16. Other information including those related to the preparation and updating of the safety data sheets**

**Date of SDS preparation or last revision (mm-dd-yyyy):** 06-25-2025

**For product information, contact** Ingredion Mexico, S.A. of C.V.  
Customer Service: +52 (33) 3884-9000

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