

Section 1 - Identification

Product identifier:

Product Number: 07730400
Product Name: N-HANCE 59

Other means of identification:

Chemical family: 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
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: 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.

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.

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:

Specific hazards arising from the chemical:

Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 80 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.10 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: | Chemical safety glasses. |
| 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: | White |

Odour: Starch

Odour Threshold: Not available

pH: Not available

pH in (1%) Solution: Approximately 7.5

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 |

Vapour pressure: Not available

Vapour density: Not available

Relative density: 1.5

Solubility: Insoluble

Partition coefficient: n-octanol/water: Not available

| | |
|--|----------------|
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not applicable |
| Volatiles: | None |
| Volatile Organic Chemicals: | Not applicable |
| Other Information: | |
| Particle Characteristics: | Not applicable |
| Particle size: | Not applicable |
| Shape and aspect ratio: | Not applicable |
| Size distribution: | Not applicable |
| Surface area: | Not applicable |
| Heat of decomposition: | Not applicable |
| Specific heat value: | Not applicable |
| Saturated vapour concentration: | Not applicable |
| Release of invisible flammable vapours and gases: | Not applicable |
| Crystallinity: | Not applicable |
| Dustiness: | Not applicable |
| Degree of aggregation or agglomeration, and dispersibility: | Not applicable |
| Redox potential: | Not applicable |
| Biodurability or biopersistence: | Not applicable |
| Surface coating or chemistry: | 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: | 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 | Ingestion, Inhalation, Skin Contact, Eye Contact |

exposure:

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: Low order of toxicity. 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.

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

Carcinogenicity: No.

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

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.

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 21CFR182.1.

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: 11-21-2022

Supersedes: 11-09-2022

Revision Number: 2

Reason for revision: New

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

Disclaimer:

Ingredion Incorporated and the Ingredion group of companies does not make any warranty or representation respecting the accuracy or completeness of the data. We assume no responsibility for any liability or damages relating thereto, or for advising you regarding the protection of your employees, customers, or others. You should make your own determination regarding the applicability of such information to, or the suitability of any products for your specific use. Ingredion Incorporated and the Ingredion group of companies expressly disclaims all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose, and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Ingredion Incorporated and the Ingredion group of companies. The INGREDION mark and logo are trademarks of the Ingredion group of companies.