



Safety Data Sheet

Prepared in accordance with Commission Regulation (EU) 2020/878

Revision Date: 28-06-2023

This document replaces SDS dated: 12-06-2023

ULTRA-CRISP CS

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

1.1 Product identifier:

Product Name: ULTRA-CRISP CS

Other means of identification:

Chemical family: Starch

UFI Number:

REACH Registration Number: This product is exempt from REACH

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

Relevant identified use: Food products

Uses advised against: Not Available

1.3 Details of the supplier of the safety data sheet:

The relevant Ingredion EMEA Company which invoices for the Product – please see Section 16

e-mail address of competent person responsible for the SDS: Regulatory.emea@ingredion.com

1.4 Emergency telephone number: EMERGENCY TELEPHONE: +1 703-741-5970 / 1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP): Not classified as hazardous in accordance with CLP

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.

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ULTRA-CRISP CS

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

ADDITIONAL INFORMATION: Not applicable

2.3 Other hazards: This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m³.
 This substance/mixture contains no components considered to be an endocrine-disrupting substance at levels of 0.1% or higher.
 Not expected to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances:
 Not applicable

3.2 Mixtures:

| Substance Name | Concentration (% by weight) | CAS No. | EC No. REACH Registration No. | Classification according to Regulation (EC) No 1272/2008 (CLP) | M-factor | SCL | ATE | Nanofor m Material |
|---|-----------------------------|---------|-------------------------------|--|----------|-----|-----|--------------------|
| This product is not classified as hazardous | | | | | | | | |

For full text of H-statements, see SECTION 16.

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.

ULTRA-CRISP CS

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|--|---|
| 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: | Nuisance dust with a possibility of dust explosion. |
| 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: | Dry Chemical., Carbon dioxide (CO ₂)., Water Fog., Foam. |
| Unsuitable extinguishing media: | None known. |

5.2 Special hazards arising from the substance or mixture:

| | |
|--------------------------------|--|
| Hazardous combustion products: | Minimum ignition temperature of dust cloud- approx. 390°C. Minimum explosive concentration- approx. 70 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.06 joules. 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:

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|--------------------------|---|
| Non-emergency personnel: | Non-emergency personnel should be kept clear of the area. |
| 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.

6.4 Reference to other sections:

See section 8 for appropriate personal protective equipment. See section 2 and 7 for additional information on hazards and precautionary measures.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

As with all chemicals, good industrial hygiene practices should be followed

ULTRA-CRISP CS

when handling this material.

7.1.1 Recommendations for safe handling:

Prevent handling of incompatible substance or mixtures. Take measures to prevent fire as well as aerosol and dust generation.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Safe storage conditions:

Keep container closed when not in use.

Special Sensitivity:

No special sensitivity.

Static Sensitivity:

Yes

Other precautions:

Use care to minimise dust generation in normal use conditions.

Avoid dispersing the powder in the air. Prevent build-up of powder on surfaces.

Materials to Avoid/Chemical Incompatibility:

None known.

7.3 Specific end use(s):

Food products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

| Substance Name | United Kingdom - Workplace Exposure Limits (WELs) - TWAs | United Kingdom - Workplace Exposure Limits (WELs) - STELs | United Kingdom - Biological Monitoring Guidance Values |
|-------------------|--|---|--|
| No data available | | | |

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

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: Safety glasses recommended.

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

Hand protection: Gloves are not normally required for foreseeable conditions of use.

ULTRA-CRISP CS

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| Respiratory protection: | Use approved dust mask. |
| Thermal hazards: | Not available |
| Environmental exposure controls: | Avoid runoff into storm sewers and ditches that lead to waterways. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

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|--|-------------------|
| Pure Substance or Mixture: | Substance. |
| Physical state: | Powder. |
| Colour: | white |
| Odour and odour threshold: | Starch odour. |
| pH: | Not available |
| pH in (1%) Solution: | Approximately 3.5 |
| Melting point/freezing point: | |
| Melting Point: | Not available |
| Freezing point: | Not available |
| Boiling point or initial boiling point and boiling range: | Not available |
| Flash point: | Not applicable |
| Evaporation Rate: | Not applicable |
| Flammability: | 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 |
| Density and/or relative density: | 1.5 |
| Solubility: | Soluble |
| Partition coefficient n-octanol/water (log value): | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not applicable |
| Volatiles: | None |
| Volatile Organic Chemicals: | Not applicable |
| Kinematic viscosity: | Not available |
| Particle characteristics: | Not applicable |

9.2 Other information:

ULTRA-CRISP CS

Molecular Weight: > 10000

SECTION 10: Stability and Reactivity

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|---|---|
| 10.1 Reactivity: | Not expected to be reactive |
| 10.2 Chemical stability: | Stable |
| 10.3 Possibility of hazardous reactions: | Hazardous polymerization will not occur. |
| 10.4 Conditions to avoid: | None known. |
| 10.5 Incompatible materials: | None known. |
| 10.6 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

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

| | |
|--|--|
| Information on possible routes of exposure: | Ingestion, Inhalation, Skin Contact, Eye Contact |
| 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. |

ULTRA-CRISP CS

| | |
|---|---|
| Reproductive Toxicity: | No. |
| 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. |
| Endocrine disrupting properties: | None of the components have endocrine disrupting properties. |

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: | No data available |
| 12.4 Mobility in soil: | Unknown |
| 12.5 Results of PBT and vPvB assessment: | Not expected to be PBT or vPvB. |
| 12.6 Endocrine disrupting properties: | None known. |
| 12.7 Other adverse effects: | None known. |

SECTION 13: Disposal considerations

| | |
|--------------------------------------|---|
| 13.1 Waste treatment methods: | Waste disposal should be in accordance with existing Community, National and local regulations. |
| Empty container warnings: | Empty containers may contain product residue; follow SDS and label |

Revision Date: 28-06-2023
 This document replaces SDS dated: 12-06-2023

ULTRA-CRISP CS

warnings even after they have been emptied.

SECTION 14: Transport Information

| | |
|--|---|
| 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 |
| 14.7 Maritime transport in bulk according to IMO instruments: | No data available |
| 14.6 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:

| Substance Name | EINECS | SVHC |
|-------------------|--------|------|
| No data available | | |

15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

| | |
|------------------------------------|--|
| Revision Date: | 06-28-2023 |
| Indication of changes: | None Known |
| Abbreviations and acronyms: | 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 |



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ULTRA-CRISP CS

TLV = Threshold Limit Value

TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

References and sources of data:

Classification according to Regulation (EC) 1272/2008 (CLP), as amended and Regulation (EC) 1907/2006 (REACH), as amended

Hazard statements:

No Hazard Statement needed.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Not available | Not available |

Precautionary statements:

No Precautionary Statement needed.

Products are manufactured in accordance with EU Law, unless expressly agreed to otherwise, in writing, by the relevant Ingredion company referred to below. The information on the safety data sheets is provided for the purposes of a general health and safety assessment by an industrial user (the "User"). Reference should also be made by the User, to any other specific relevant local or national health, safety, environmental or other applicable legislation, including any import or export regulations relevant to the country in which the User operates - the User will need to check this information for itself. The information provided by the relevant Ingredion company referred to below, does not constitute indication of suitability for specific uses, nor is it legal advice given to the User.

This document is issued on behalf of the Ingredion EMEA Company which is the Supplier invoicing for the Product. The respective details of each of the relevant Supplier companies are as follows:

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ULTRA-CRISP CS

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