



SAFETY DATA SHEET

REDIBOND(TM) 5330

1. Identification

Product identifier:

Product number: 70000048
Product name: REDIBOND(TM) 5330
liquid starch

Other means of identification:

Chemical family: Modified starch

Recommended use and restrictions on use:

Recommended use: Papermaking
Restrictions on use: Not Available

Initial supplier identifier:

Ingredion Canada Corporation
1600 - 90 Burnhamthorpe Road West
Mississauga, Ontario, L5B 0H9, Canada
(905) 281-7950 (business hours)

Emergency telephone number and any restrictions on the use of that number, if applicable:

MEDICAL: 1-866-374-2659 (Health & Safety Call Center - 24 hours)
TRANSPORT: 1-800-424-9400 (CHEMTREC - 24 hours)

2. Hazard identification

Classification of the chemical is in accordance with Hazardous Products Regulations (HPR) as implemented under the Workplace Hazardous Materials Information System (WHMIS):

GHS Hazard Symbols:

No hazard symbols required

Hazard Statements:

No Hazard Statement needed.

Label elements:

GHS Classification: Not classified as hazardous in accordance with WHMIS 2015

Signal Word: No Signal Word needed.

Precautionary Statements: No Precautionary Statement needed.

Physical hazards not otherwise classified:

Hazard Category: None known.

Health hazards not otherwise classified:

Hazard Category: None known.

Other hazards known to the supplier with respect to the hazardous product: None known.

3. Composition/information on ingredients

Chemical Name	CAS registry number and any unique identifiers	Concentration (% by weight)
None classified as hazardous under the Workplace Hazardous Materials Information System (WHMIS).		

4. First-aid measures

A description of necessary first-aid measures, subdivided according to the different routes of exposure (inhalation, ingestion, skin and eye contact):

Inhalation: First aid is not normally required.

Ingestion: Treat symptomatically and supportively. Get medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention.

Most important symptoms and effects, whether acute or delayed: Not considered as hazardous.

Indication of immediate medical attention and special treatment needed, if necessary: No further first aid information is available.

5. Fire-fighting measures

Suitable and unsuitable extinguishing media:

Suitable extinguishing media: Not Applicable

Unsuitable extinguishing media: None known.

Specific hazards arising from the hazardous product: Non-combustible.

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:

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required.

Methods and materials for containment and cleaning up:

Absorb spillages onto sand, earth or any suitable absorbent material. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.

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: Protect from freezing.

Sensitivity to Static Electricity: No

Other precautions: None known

Materials to Avoid/Chemical Incompatibility: None known

8. Exposure controls/personal protection

Control parameters, including occupational exposure limit values or biological limit values and the source of those values:

Chemical Name	OSHA PEL	ACGIH TLV-TWA	AIHA Exposure limits
No data available			

Appropriate engineering controls:

Normal ventilation expected to be adequate.

Individual protection measures, such as personal protective equipment:

Respiratory Protection:

None required under normal handling conditions.

Eye protection:

Chemical safety glasses.

Skin protection:

Employee must wear appropriate protective gloves to prevent contact with this substance.

Gloves:	Gloves are recommended due to possible irritation.
Other protective equipment:	Not applicable.
General hygiene conditions:	Wash before eating, drinking, or using toilet facilities.

9. Physical and chemical properties

Appearance, such as physical state and colour:

Pure substance or mixture:	Mixture
Physical state:	Liquid
Colour:	Amber

Odour: Slight

Odour threshold: Not available

pH: Approximately 7

pH in (1%) Solution: Not available

Melting point and freezing point:

Melting point (°C):	Not available
Freezing point (°C):	Not available

Initial boiling point and boiling range: Not available

Flash point: Not applicable

Evaporation rate: 1 (Water = 1)

Flammability, in the case of solids and gases: No

Upper and 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: 1.18

Solubility: Soluble in water

Partition coefficient - n-octanol/water: Not available

Auto-ignition temperature: Not applicable

Decomposition temperature: Not available

Viscosity: Not available

Volatiles: Approximately 70 % Water

Volatile Organic Chemicals (VOC): Not available

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, including static discharge, shock or vibration:	None known
Incompatible materials:	None known
Hazardous decomposition products:	No hazardous decomposition products known.

11. Toxicological information

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

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Ingestion, Skin Contact, Eye Contact
Target Organs Potentially Affected by Exposure:	Not applicable.
Symptoms related to the physical, chemical and toxicological characteristics:	No data available
Toxic effects:	No known hazards are associated with the use of this material.
Delayed and immediate effects, and chronic effects from short-term and long-term exposure:	
Acute Toxicity:	
Acute Toxicity - Oral:	Based on available data, the classification criteria are not met.
Acute Toxicity - Dermal:	Based on available data, the classification criteria are not met.
Acute Toxicity - Inhalation:	Based on available data, the classification criteria are not met.
Skin Corrosion / Irritation:	Based on available data, the classification criteria are not met.
Eye Damage / Irritation:	Based on available data, the classification criteria are not met.
Respiratory Sensitization:	Based on available data, the classification criteria are not met.
Skin Sensitization:	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
STOT - single exposure:	Based on available data, the classification criteria are not met.
STOT - repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

Numerical measures of toxicity including ATE's:

There is no known toxicity data available for the components or the product.

12. Ecological information

Ecotoxicity (aquatic and terrestrial if available): No information available.

Component toxicity data:

Chemical Name	CAS registry number and any unique identifiers	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.

13. Disposal considerations

Information on safe handling for disposal and methods of disposal, including any contaminated packaging: Disposal should be in accordance with local, provincial or national legislation.

Empty Container Warnings: Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

14. Transport information

UN number: Not applicable

United Nations proper shipping name as provided for in the United Nations Model Regulations: Not Regulated

Transport hazard class as provided in the United Nations Model Regulations: Not applicable

Packing group as provided in the United Nations Model Regulations: Not applicable

Toxic Inhalation Hazard Zone: No data available



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Environmental hazards according to the International Maritime Dangerous Goods Code and the United Nations Model Regulation: No data available

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): No data available

Special precautions in connection with transport or conveyance either within or outside the premises: Consult IMO regulations before transporting in bulk by ocean.

15. Regulatory information

Safety, health and environmental regulations made within or outside Canada, specific to the product in question:

Canada - Domestic Substances List (DSL):	On Inventory
Canada - Non-Domestic Substances List (NDSL):	Not On Inventory
Canada - In-Commerce List (ICL):	Not On Inventory

16. Other information

Date of SDS preparation or last revision (mm-dd-yyyy): 12-22-2022

For product information, contact: For product information, contact:
Ingredion Incorporated
Customer Service: 1-800-713-0208

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