

Material Safety Data Sheet

CLEARJEL ®

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CLEARJEL ®

modified food starch

RECOMMENDED USE Food products

SUPPLIERMANUFACTURERCP INGREDIENTS INDIA PVT LTDIngredion IncorporatedPlot 1/1, TTC Industrial Area,5 Westbrook Corporate CenterP.O. Box 12, Thane Belapur Road,Westchester, II. 60154

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United States of America

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Emergency Telephone (Medical & Transport - 7Days/24 Hours)

ALERT-SGS Emergency Response Service Hotline

Toll Free Number: +800 253 78 747 available for Australia, New Zealand, Japan, China, Hong Kong, Malaysia,

Philippines, Singapore, South Korea, and Thailand Any countries out of the above lists: +(65) 6542 9595

SDS Requests and general information, please contact Local Customer Service: See phone numbers in Section 16

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Possible physical irritant from dust particles. Potential for dust explosion.

White Powder. Starch Odor

EYE Particulates may scratch eye surfaces and cause mechanical irritation.

SKIN CONTACT Low order of toxicity.

INHALATION This product can produce a nuisance dust which should be maintained below a

time weighted average of 10 mg/m3.

INGESTION Low oral toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY Modified Starch

COMPONENT CAS NUMBER CONCENTRATION (% by weight)

None classified as hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

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4. FIRST-AID MEASURES

EYE 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.

INHALATION Remove to fresh air. Get medical attention if irritation persists.

INGESTION None required.

5. FIREFIGHTING MEASURES

AUTOIGNITION Not available FLASH POINT Not applicable

EXTINGUISHING MEDIA Dry Chemical; CO2; Water Fog; Foam SPECIAL FIREFIGHTING PROCEDURES No special procedures are required.

FIRE & EXPLOSION HAZARDS 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.

HAZARDOUS COMBUSTION PRODUCTS

This product does not undergo spontaneous decomposition.

Typical combustion products are carbon monoxide, carbon

dioxide, nitrogen and water.

LOWER EXPLOSION LIMIT (%)

UPPER EXPLOSION LIMIT (%)

Not applicable

Not applicable

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES 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.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE Ambient.

HANDLING/STORAGE Normal precautions for handling chemicals are

applicable.

SENSITIVITY TO STATIC ELECTRICITY Yes SENSITIVITY TO MECHANICAL IMPACT No

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No data available

VENTILATION REQUIREMENTS General.

EYE PROTECTION REQUIREMENTS Safety glasses recommended.

GLOVE REQUIREMENTS Gloves are not normally required for forseeable conditions of use.

CLOTHING REQUIREMENTS Not applicable. CHANGE/REMOVAL OF CLOTHING Not normally required.

WASH REQUIREMENTS Wash before eating, drinking, or using toilet facilities.

RESPIRATOR REQUIREMENTS NIOSH approved dust mask.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE Pure PHYSICAL FORM Powder. White COLOR **ODOR** Starch ODOR THRESHOLD Not available MOLECULAR WEIGHT > 10000 PH AS IS Not available pH IN (1%) SOLUTION Approximately 6 **OXIDIZING PROPERTIES** Not applicable **BOILING POINT** Not available Not available MELTING/FREEZING POINT SOLUBILITY IN WATER Insoluble PARTITION COEFFICIENT (n-octanol/water) Not applicable Not applicable VISCOSITY SPECIFIC GRAVITY (WATER=1) 1.5 **EVAPORATION RATE** Not applicable Not applicable VAPOR PRESSURE (mmHg) VAPOR DENSITY (air = 1) Not applicable **VOLATILES** None **VOLATILE ORGANIC COMPOUNDS** Not applicable Not available AUTOIGNITION Not applicable FLASH POINT

10. STABILITY AND REACTIVITY

STABILITY Stable

STABILITY DETAIL Material is stable under normal temperatures and pressures.

MATERIALS TO AVOID None known CONDITIONS TO AVOID None known

HAZARDOUS DECOMPOSITION PRODUCTS This product does not undergo spontaneous decomposition.

Typical combustion products are carbon monoxide, carbon

dioxide, nitrogen and water.

Hazardous polymerization will not occur.

HAZARDOUS POLYMERIZATION

CONDITIONS

REACTIVITY Not expected to be reactive

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY Eye Contact; Skin Contact; Inhalation; Ingestion

CARCINOGEN IARC NTP Carcinogen OSHA Substance (group) Specific Regulation

COMPONENT

There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

PRODUCT TOXICOLOGY

PRODUCT INFORMATION No data available

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ACUTE (SHORT TERM) EFFECTS OF EXPOSURE

EFFECTS OF ACUTE EXPOSURE

Unlikely to cause harmful effects under recommended

conditions of handling and use.

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE

This product is considered as being non-toxic. Use of good

industrial hygiene practices is recommended.

TARGET ORGANS Not applicable.

12. ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONMENT No data available MOBILITY Unknown.

PERSISTENCE AND DEGRADABILITY No data available

POTENTIAL TO BIOACCUMULATE Unknown.

ECOTOXICITY No information available.

AQUATIC TOXICITY None Established

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS EMPTY CONTAINER WARNINGS

Disposal should be in accordance with local, state or national legislation. Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION

This section provided for general information only. The shipping description below may not represent requirements for all modes of transportation, packaging, shipping methods or locations outside of the United States.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATIONNot regulatedPROPER SHIPPING NAMENot ApplicableHAZARD CLASSNot ApplicableU.N. NUMBERNo data availablePACKING GROUPNot Applicable

ICAO/IATA CLASSIFICATIONNot regulatedPROPER SHIPPING NAMENot ApplicableHAZARD CLASSNot ApplicableU.N. NUMBERNot ApplicablePACKING GROUPNot Applicable

IMO/IMDG CLASSIFICATIONNot regulatedPROPER SHIPPING NAMENot ApplicableHAZARD CLASSNot ApplicableU.N. NUMBERNot Applicable

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PACKING GROUP Not Applicable

FLASH POINT Not applicable MARINE POLLUTANT NAME No data available

IMO MFAG See Tables 1-15 based on symptoms.

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

15. REGULATORY INFORMATION

TSCA This product is manufactured in compliance with all provisions of the

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

FDA 21CFR172.892.

16. OTHER INFORMATION

ISSUE DATE: 06-August-2015

FOR INFORMATION CONTACT: India:

CP INGREDIENTS INDIA PVT LTD Customer Service: +91-22-2778-1466

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

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