

SAFETY DATA SHEET
CLEARAM® CH 20 20-AMIDON MODIFIE-E1422

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

1.1 Product identifier:

Product name: CLEARAM® CH 20 20-AMIDON MODIFIE-E1422
Chemical name: Acetylated distarch adipate
REACH Registration No.: Exempted
CAS-No.: 63798-35-6

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

Identified uses:	Uses advised against:
Food.,	No data available.

1.3 Details of the supplier of the safety data sheet:

Supplier:
ROQUETTE FRERES
1 Rue de la Haute Loge
62136 LESTREM - France

Telephone: +33 3 21 63 36 00
Fax: +33 3 21 63 38 50
e-mail: sds@roquette.com

1.4 Emergency telephone number: 070/245.245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to the legislation in force : CLP Regulation (EC) No 1272/2008.

2.2 Label elements: Not applicable

2.3 Other hazards: Dust may form an explosive mixture in the atmosphere.

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.
Acetylated distarch adipate	>=88%	63798-35-6	Polymer	Exempted

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Eye contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin contact: Wash with soap and water.

Ingestion: Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed: Dust may irritate the eyes and the respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Dry chemicals or foams.

5.2 Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products. Dust may form an explosive mixture in the atmosphere. See Section 10.

5.3 Advice for firefighters:

Special Fire Fighting Procedures: Prevent dust cloud.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions: Not regarded as dangerous for the environment.

6.3 Methods and material for containment and cleaning up: Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section 13 of the SDS.

6.4 Reference to other sections: For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid generation and spreading of dust. See Section 8 of the SDS for Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities: Store in a dry place. Store at room temperature.

7.3 Specific end use(s): Food.,

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

This product does not contain any component with occupational exposure limits

8.2 Exposure controls:

Appropriate engineering controls: Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear dust-resistant safety goggles where there is danger of eye contact.

Skin protection:

Hand protection: No special precautions.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1).

Hygiene measures: Handle the product in accordance with the good hygiene practices and safety instructions.

Environmental exposure controls: Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	Solid
Form:	powder
Color:	Pale yellow
Odor:	Odorless
pH:	~ 6,2 at 20 %
Melting Point:	No data available.
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	~ 0,55
Solubility in Water:	~ 150 g/l at 90 °C

Explosive properties: - INERIS -Data from similar product.

Autoignition Temperature:	~ 440 °C (Godbert-Greenwald) Cloud. ~ 400 °C 5 mm layer. ~ 323 °C product in deposit.
MIE (Minimum ignition energy):	77 - 105 mJ (Hartmann)
MRP (Maximum Rate of Pressure):	~ 459 bar/s
MaxP (Maximum Pressure):	~ 6,4 bar
Kst (Dust Explosion Description Number):	~ 125 barm/s
Explosion Class:	st 1 (VDI 3673)
Volume resistivity:	> 10 ⁹ Ω.cm
Moisture:	~ 12,5 % (ISO 589)
Particle Size:	~ 15,8 µm (NFX 11-666)

9.2 Other information:

Conductivity: ~ 190 µS/cm (at 20%)

SECTION 10: Stability and reactivity

10.1 Reactivity:	Oxidizing agents.
10.2 Chemical stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions under ordinary conditions of use and storage.
10.4 Conditions to avoid:	Prevent dust cloud. Dust clouds may be explosive under certain conditions.
10.5 Incompatible materials:	Strong oxidizing substances.
10.6 Hazardous decomposition products:	Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

No data on possible toxicity effects have been found.

11.1 Information on toxicological effects:

Acute Toxicity :

Test / Substance	Species	Type / Result	Exposure	Remarks
Acetylated distarch adipate	Rat	LD50 - Oral : >2000 mg/kg No treatment related effects.		- Literature Reference -

Skin irritation. : No data available.

Serious eye irritation : No data available.

Sensitization : No data available.

Repeated dose toxicity :

Test / Substance	Species	Result	Exposure	Remarks
Acetylated distarch adipate	Rat	NOAEL : 2500 mg/kg No treatment related effects.	90 day(s)	- Literature Reference -

Mutagenesis: No data available.

Carcinogenicity: No data available.

Reproductive toxicity :

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
Acetylated distarch adipate	Rat	Oral 6 Week(s).	No treatment related effects.	- Literature Reference -

Remarks: The ingredients of this product are not classified as carcinogenic by the ACGIH, the CIRC, the OSHA or the NTP.

SECTION 12: Ecological information

There are no data on the ecotoxicity of this product.

12.1 Toxicity: No data available.

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: Exempted

12.6 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product: Dispose of waste in an appropriate authorised treatment facility in accordance with regulations in force and product characteristics at time of disposal. (for example, energy recovery).

Packaging material: Single use packaging. Collect for salvage or disposal.

SECTION 14: Transport information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.5 Environmental hazards: Not regulated.

14.6 Special precautions for user: No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This Safety Data Sheet is not mandatory according to the requirements of regulation (EC) N°1907/2006 (REACH) article 31 and is provided for information.

15.2 Chemical safety assessment: Exempted

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: JECFA : Joint FAO/WHO Expert Committee on Food Additives.

Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NOAEL : No Observed Adverse Effect Level
CLP : Classification, Labelling and Packaging.
PBT: Persistent, Bioaccumulative and Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals.
vPvB: very persistent and very bioaccumulative substance.

Disclaimer:

The information provided in this Safety Data Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use.

The information given is designed only as a guidance and is not to be considered a warranty or quality specification.

All information and instructions provided in this SDS are based on the current state of our knowledge at the latest revision date indicated.