

SAFETY DATA SHEET (SDS)

CARAMEL COLOUR (POWDER)

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 - PRODUCT AND COMPANY

1.1. Product Identifier:

Product name: CARAMEL COLOUR (LIQUID)

E150a (class I), E150b (class II), E150c (class III), E150d (class IV)

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

Use: Caramel (colour)

1.3. Details of the supplier of the safety data sheet

Registered company name: SETHNESS-ROQUETTE FRANCE

Address: Route d'Estaires, 59660, Merville, FRANCE

Telephone: +33 (0)3 28 50 00 50

Fax: +33 (0)3 28 50 11 55

Email:

- sales@sethness-roquette.com
- <http://www.sethness-roquette.com>

1.4. Emergency phone number: +33 (0)1 45 42 59 59

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>

Other emergency numbers

National Poisons Information Service of England: <http://npis.org> - NHS 111: dial 111 - National Poisons Information Centre of Ireland:

353 (1) 809 2166 - LUXEMBOURG: (+352) 8002 5500 - European Emergency Number Association (EENA): 112

SECTION 2 - HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

In compliance with EC Regulation No 1272/2008 and its amendments.

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site. This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8). This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements:

In compliance with EC Regulation No 1272/2008 and its amendments, NO labelling requirements for this substance.

2.3. Other hazards:

In use, may form flammable/explosive dust-air mixture.

The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 – COMPOSITION/INGREDIENT INFORMATION

3.1 Mixture

EC Name	%	CAS Number	EC Number	Classification according to the Regulation (EC) N°1272/2008 (CLP)	Registration number REACH
Caramel (COLOUR)	>=60 - <=70%	8028-89-5	232-435-9	Not classified	01-2120792819-32-0000
Maltodextrin	>=30 - <=40%	9050-36-6	232-940-4	Not classified	Exempt (Annex IV)

Other data: Caramel colours are divided into four separate categories depending on the reactants used in their production.

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SECTION 4 – FIRST-AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Wash the skin thoroughly with soap and water or a recognised cleaner.

In the event of swallowing:

Seek medical attention, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

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

No data available.

SECTION 5 – FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction: In the event of a fire use: sprayed water or water mist, foam, dry chemical agents, carbon dioxide (CO₂).

Unsuitable methods of extinction: In the event of a fire, do not use water jet.

5.2. Special hazards arising from a substance or mixture.

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe smoke.

In the event of a fire, the following compounds may be formed: Carbon monoxide (CO) and/or Carbon dioxide (CO₂).

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, firefighters must wear standard protective equipment, including flame retardant clothing, helmet with face mask, gloves, rubber boots and, in confined spaces, a self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker: First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spill with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up.

Clean preferably with a detergent, do not use solvents. Dilute in water (large quantities). Washing the residue must be disposed of in a sanitary sewer as this product contains a biochemical oxygen demand.

6.4. Reference to other sections

No data available.

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SECTION 7 – HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Fire prevention: Prevent access by unauthorized personnel.

Recommended equipment and procedures: For personal protection, see section 8. Observe precautions stated on label and industrial safety regulations.

Prohibited equipment and procedures: No smoking, eating or drinking in areas where the substance is used.

7.2. Conditions for safe storage, including any incompatibilities.

Store in cool, dry place, protect from frost.

Packaging:

Always keep in packaging made of an identical material to the original.

Recommended type of packaging: Drums, Bulk, Container.

Suitable packaging materials: Polyethylene.

7.3. Specific end use(s)

No data available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

This product does not contain components >1% with specific exposure limit values.

Chemical name	Type	Exposure limit values	Sources
Dust - Inhalable fraction	TWA	10 mg/m ³	Belgium. Exposure limit values (01 2020)
Dust - Alveolar fraction	TWA	3 mg/m ³	Belgium. Exposure limit values (01 2020)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection measures such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment clean and been properly maintained.

Store personal protective equipment in a clean place, away from work area.

Never eat, drink, or smoke during use. Remove and wash contaminated clothing before re-using.

Ensure adequate ventilation, especially in confined areas.

Eye / Face protection: Avoid contact with eyes. Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Hand protection: Wear appropriate protective gloves for prolonged or repeated skin contact.

Respiratory protection: Avoid breathing dust.

In case of insufficient ventilation or risk of dust inhalation, wear suitable respiratory equipment with particulate filter (type P1). (CEN 143)

8.2.3. Environmental exposure controls

Do not release into the environment.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES (As Manufactured)

9.1. Information on basic physical and chemical properties

Physical state:	Powder
Colour:	Dark brown
Odour:	
Odour threshold:	Not stated
Odour:	Characteristic
Melting point:	Not relevant
Freezing point:	Not relevant
Boiling point	Not stated
Flammability (solid, gas) :	Not classified
Lower and upper explosion limit:	Not stated
Flash Point Interval:	Not relevant
Self-ignition temperature:	Not relevant
Decomposition point/decomposition range:	Not relevant
pH:	
pH:	Not relevant
pH (aqueous solution):	2.0 – 5.0
Viscosity :	Not relevant

Water solubility :	> 500 g/l
Partition coefficient n-octanol/water (log value) :	Not relevant
Vapour pressures (50°C):	Not relevant
Relative vapour density:	Not relevant
Relative density :	< 1

9.2. Other information

No data available

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

Formation of explosible dust/air mixtures:	INERIS - Data from a similar product
Particles size:	~ 42 µm (ISO 13320)
MIT (Minimum Ignition Temperature) :	~ 400 °C (cloud) / Godbert-Greenwald - 360 °C (5 mm layer) / ~ 281 °C (deposit)
Maximum pressure generated by the explosion:	~ 8,9 bar (EN 14034-1 / ASTM E1226)
Deflagration index (Kst):	~ 125 bar/s
Minimum ignition energy:	300 - 1000 mJ
Dust explosion class:	st 1
Volume resistivity:	>10 ⁹ Ω.m (IEC 61241-2-2 / Group IIIB: non-conductive dusts)
Moisture:	~ 4% (ISO 589)
Oxidizing properties:	Not classified
Evaporation rate :	Not applicable
VMP (velocity of pressure rise) :	~ 459 bar/s.
MEC (Minimum Explosive Concentration):	30-60 g/m ³ (EN 14034-3 / ASTM E1515)

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SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid: frost.

Dusts can form an explosive mixture with air. Keep dust away from sources of ignition.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

SECTION 11 – TOXICOLOGICAL INFORMATION

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

No data available.

11.1.1. Substances

Acute toxicity:

Oral way:

LD50 >= 17500 mg/kg bw (not classified)

Dermal way:

LD50 > 2000 mg/kg bw (not classified)

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

Short-term toxicity to fish

LC50 > 100 mg/l

Duration of exposure: 96 h

Short-term toxicity to aquatic invertebrates

EC50 > 100 mg/l

Duration of exposure: 48 h

Toxicity to aquatic algae and cyanobacteria

ECr50 > 100 mg/l

Duration of exposure: 7d

12.2. Persistence and degradability

Biodegradability: Not readily biodegradable

12.3. Bioaccumulative potential

Product metabolized by organisms.

12.4. Mobility in soil

Can contribute to biochemical oxygen demand (BOD) and chemical oxygen demand (COD).

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

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12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

Nicht wassergefährdend (VwVwS vom 27/07/2005, KBws): Not hazardous for water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods: Do not pour into drains or waterways.

Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 – TRANSPORT INFORMATION

Exempt from transport classification and labelling.

- 14.1. UN number or ID number: -
- 14.2. UN proper shipping name: -
- 14.3. Transport hazard class(es): -
- 14.4. Packing group: -
- 14.5. Environmental hazards: -
- 14.6. Special precautions for user: -
- 14.7. Maritime transport in bulk according to IMO instruments: -

SECTION 15 – REGULATORY INFORMATION

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

Classification and labelling information included in section 2:

The following regulations have been used:

EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information: No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

Substance not restricted under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

Explosives precursors:

The substance is not subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions: No data available.

German regulations concerning the classification of hazards for water (WGK):

Nicht wassergefährdend (VwVwS vom 27/07/2005, KBws) : Not hazardous for water.

Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=0 Specific Risk=none



15.2. Chemical safety assessment: No data available.

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SECTION 16 – OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

CLP: Classification, Labeling and Packaging (Reg. CE 1272/2008).

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