


SAFETY DATA SHEET (EC) regulation n°1907/2006 annex II modified	Date issued : 14/11/2012
CLEARZYM™ LT	Date of last revision : 11/05/2015

SECTION 1 : IDENTIFICATION OF MIXTURE AND OF THE COMPANY

1.1 Product identifier	CLEARZYM™ LT
1.2 Relevant identified uses of the mixture and uses advised against	
Identified uses	: Foaming triple enzyme natural detergent for cleaning surfaces in industrial and breeding and agricultural production areas
Uses advised against	: -
1.3 Details of the supplier of the safety data sheet	
Manufacturer	: LCB food safety 71 route nationale 6 71260 LA SALLE (F) Tél. :+33 (0)3.85.36.81.00 Fax.:+33 (0)3.85.36.01.28
SDS Information	: fds@lcbfoodsafety.com
1.4 Emergency telephone number	: ORFILA (INRS) : +33 (0)1.45.42.59.59 Base Nationale des Produits et Compositions : +33 (0)3.83.32.36.36 (24h/24h)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the mixture	
According the regulation (EC) n°1272/2008	: eye irritant cat. 2 H319
According the directive 1999/45/CE	: Not classified
2.2 Label elements	
Hazard pictogram(s)	: 
Signal word	: WARNING
Hazard statement(s)	: H319 Causes serious eye irritation.
Precautionary statement(s) - Prevention	: P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement(s) – Intervention	: P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 If eye irritation persists: Get medical advice/attention.
Supplemental hazard (UE)	: EUH208 Contains methylchloroisothiazolinone/methylisothiazolinone. May produce an allergic reaction.
2.3 Others hazards	: Contains enzymes, may cause a sensitising reaction. This mixture contains no substance responding to criteria for classification as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006

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SECTION 3 : COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances: not concerned

3.2 Mixture

Description of the mixture: liquid detergent containing enzymes

CE N°	CAS N°	INDEX N°	Registration N° Reg.EC 1907/2006	Components	%	Classification according to dir. 67/548/EEC	CLP classification EC reg. 1272/2008
200-578-6	64-17-5	603-002-00-5	-	Ethyl alcohol	1-5	F R11	Liquid. Infl.H225
207-838-8	497-19-8	011-005-00-2	01-2119485498-19	Sodium carbonate	1-5	Xi R36	eye irr. 2 H319
500-223-8	68585-34-2	-	01-2119488639-16	Sodium lauryl ether sulphate	1-5	Xi R36/38	eye irrit. H319 cut. irrit. H315
77-92-9	201-069-1	-	-	Citric acid	1-5	Xi R36	eye irr. 2 H319

Complete R-phrases and H-phrases : see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measure

- Immediate treatment : If person is unconscious, call a first aider to place him/her in recovery position.
- In case of inhalation : Move subject away from exposed area, get them to breathe in fresh air. Seek medical advice in case of complications (breathing difficulties, etc.).
- In case of skin contact : Remove soiled clothing and wash skin with plenty of water. Seek medical advice in case of complications (redness, irritations, etc.).
- In case of contact with eyes : Rinse immediately with eye solution or clean water keeping the eye lids open for at least 10 minutes. Consult an ophthalmologist in event of complications.
- In case of ingestion : Do not induce vomiting. Keep person conscious, rinse mouth with water. Seek medical advice immediately and show packaging or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and acute effects

- By inhalation : Inhalation over extended period of mist or aerosols may irritate respiratory tracts. Inhalation of aerosols resulting from inappropriate handling may cause sensitisation and allergic-type reactions in sensitised individuals: Shortness of breath, respiratory whistling, coughing
- By eye contact : Irritating to eyes in event of direct contact.
- by massive ingestion : Gastro-intestinal irritation, nausea, vomiting, diarrhoea
- By skin contact : Irritating to skin in event of direct contact. May cause a skin allergic reaction in sensitised people.
- Symptoms and delayed effects : The appearance of respiratory problems may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

- Immediate treatment : symptomatic treatment
- Contraindications : not available
- Antidotes : not available
- On-site equipment : eye wash and portative shower

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SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Non-flammable product.
Use extinguishing systems recommended for materials and products in vicinity (water, powder, foam)

Unsuitable extinguishing media : None

5.2 Special hazards arising from mixture : No specific hazard related to product

5.3 Advice for firefighters : In case containers are extinguished or cooled with water, avoid discharging the water into the environment.
Self-contained breathing equipment.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precaution : Wear Protective Equipment recommended in section 8

Emergency procedures : In event of accidental release, ventilate premises

6.2 Environmental precautions : Do not pour into drains, sinks or bodies of water. Avoid dispersal by containing product with absorbent materials (sand, earth, vermiculite, diatomaceous earth, etc.)

6.3 Methods and material for containment and cleaning up

Containment techniques : Contain spilled product with sand, earth or any other similar absorbent.
Block water outlets.

Clean-up procedures : Clean up product by pumping or absorption with insert material then dispose of in accordance with the regulations.

Forbidden method : none

6.4 Reference to other section : Information about Individual Protective Equipment: see section 8
Information about waste: see section 13

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling : Avoid contact with eyes or skin. Do not breathe vapours or aerosols.
Avoid discharge when dispensing and diluting product.
Do not mix with other products.
Provide safety showers and eye fountains in workshops where product is regularly handled.
Handle in well-ventilated areas.
Make sure container is properly closed.

Instruction of use : Use personal protection equipment.
Use automatic dispensing equipment. Follow dilution doses.
Application by soaking for small equipment and by injection into circuits in closed circuits.

Hygiene measures : No smoking, drinking or eating during use.
Wash hands after use.
Do not eat with work clothes on.

7.2 Conditions for safe storage, including any incompatibilities

Storage requirements : Store in temperate premises (5 to 30°C), away from sun light.
Store in tightly sealed original packaging

7.3 Specific end use(s) : Not available

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits values

		Ethyl alcohol	
		mg/m ³	ppm
France	8 hrs	1900	1000
	15 min	9500	5000
Sweden	8 hrs	1000	500
	15 min	1900	1000

Biological exposure indicators : None

Recommended monitoring procedures : None

DNEL : Not available

PNEC : Not available

8.2 Exposure controls

Appropriate engineering controls : Use in ventilated areas.
Rinse hands after each use.

Eyes/face protection : Safety goggles with side shields compliant with standard NF EN 166.

Skin protection : Protective apron or overalls for liquid chemical products (type 3), closed toe safety boots or shoes resistant to chemical products.

hand protection : Wear impermeable gloves in butyl, nitrile or neoprene rubber compliant with standard NF EN 374.
Protection: 80%
Time to rupture 1 - 4 hours (level 3: >60 min)
Minimum thickness: 0.11 mm

Respiratory protection : Wear a type P2 respiratory mask (half-face)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Color : Light brown

Odour : Characteristic

Odour threshold : Not available

pH (25°C) : 7.4 ± 0.5

Melting point/freezing point : non applicable

Initial boiling point and boiling range : non applicable

Flash point : 61±0.5

Evaporation rate : Non applicable

Inflammability : Not available

Upper explosive limits : Not available

Lower explosive limits : Not available

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Vapour pressure	:	Not available
Vapour density	:	Non applicable
Relative density (25°C)	:	1.028 g/mL
Solubility	:	Total in water
Partition Coefficient n-octanol/eau	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Kinematic viscosity (ISO 2431)	:	Not available
Explosive properties	:	Not available
Oxidising properties	:	Not available
9.2 Others information		Not available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity	:	Product presents no risk of dangerous reactivity in its commercial packaging and under normal and foreseeable ambient storage and handling conditions.
10.2 Chemical stability	:	Stable under normal conditions of use and storage.
10.3 Possibility of hazardous reaction	:	The preparation does not have any known hazardous reactions.
10.4 Conditions to avoid	:	Protect from freezing
10.5 Incompatible materials	:	Do not use in presence of acids, strong bases, powerful oxidants, aldehydes or bleach
10.6 Hazardous decomposition products	:	None

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	:	No experimental data available.
Sodium lauryl ether sulphate	:	DL ₅₀ oral / rats : > 2000 mg/kg
Sodium carbonate	:	DL ₅₀ oral/rats : 2800 mg/kg DL ₅₀ inhalation/rat / 2h : 2,3 mg/l DL ₅₀ skin/rabbit: >2000 mg/l
Irritation	:	irritant for eyes
Corrosivity	:	The product does not contain any skin corrosive substance
Sensitisation	:	Contains enzymes that can cause a respiratory sensitisation reaction.
Repeated dose toxicity	:	No experimental data available
Carcinogenicity	:	Ethanol is classified by the IARC: carcinogenic for humans (group 1)
Mutagenicity	:	The product does not include any ingredient known as mutagenic

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toxicity for reproduction : The product does not include any ingredient known as toxic for reproduction

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity	No experimental data available.
Sodium carbonate	: CE ₅₀ - 96 h / crustaceans (<i>Daphnia magna</i>) : 200-227mg/l CE ₅₀ - 96 h / fish (<i>Lepomis macrochirus</i>): 300 mg/l
Sodium lauryl ether sulphate	: CE ₅₀ – crustaceans : 1 à 50 mg/l CL ₅₀ - 96 h / fish : 1,4 à 20 mg/l CE ₅₀ - algae: > 1 mg/l
Ethanol	: CE ₅₀ – 48 h /invertebrates (<i>Daphnia pulnax</i>) : 24µg/l CL ₅₀ - 96 h / fish (<i>Lepomis macrochirus</i>) : 93µg/l CE ₅₀ – 1 to 2hrs / algae (<i>acrosiphonia sonderi</i>)photosynthesis: 10000-25000 µg/l
12.2 Persistence and degradability	The surfactants found in this product meet the biodegradability criteria defined in the European regulation EC/648/2004 of 31/03/2004 relating to detergents. Primary biodegradability is over 90% in 28 days, final biodegradability is over 60% in 28 days.
12.3 Bioaccumulative Potential	not available
12.4 Mobility in soil	not available
12.5 Results of PBT and vPvB assessment	This mixture contains no substance responding to criteria for classification as PBT or vPvB
12.6 Other adverse effects	not available

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Waste unused product	: Do not pour into ground, drains or a body of water Handle product with gloves; prepare for disposal in original packaging Dispose of in accordance with national or Community provisions in effect by a certified company
Soiled empty packaging (used product)	: Keep label on container Dispose of rinsed packaging via an accredited recycling organisation.
Particular precautions	: None
EC regulatory provisions	: <i>European commission Decision 2000/532/EC of 03 May 2000 establishing a list of wastes</i>

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/IMDG/OACI-IATA :
Product not classified in accordance with international regulations relating to the transport of dangerous goods.

ADR/RID/IMDG

14.1 UN number	not concerned
14.2 UN proper shipping name	not concerned
14.3 Transport hazard class(es)	not concerned
14.4 Packing group	not concerned
14.5 Environmental hazards	not concerned
14.6 Special precautions for user	not concerned
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: not concerned

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SECTION 15 : REGULATORY INFORMATION

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

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.
Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

Regulation (EC) n°2037/2000 on substances that deplete the ozone layer :	not concerned
Regulation (EC) n°850/2004 on persistent organic pollutants:	not concerned
Regulation (EC) n°689/2008 concerning the export and import of dangerous chemicals:	not concerned
Directive 96/82/CEE (SEVESO II) :	not concerned
Regulation (EC) n°1907/2006 (REACH) :	
Authorisation (title VII regulation (EC) n°1907/2006):	not concerned
Restriction (title VIII regulation (EC) n°1907/2006):	not concerned

In accordance with regulation (EC) 648/2004 relating to detergents contains : <5% anionic surfactant, amphoteric surfactant, non-ionic surfactant
Enzymes- Preservatives (MCI/MI)

15.2 Chemical safety assessment : Not available

SECTION 16 : OTHER INFORMATION

Last revision	:	§ 9 : pH
Legend to abbreviations and acronyms	:	LD: Lethal dose C _L : Lethal concentration C _E : Efficacy concentration PNEC: Predicted No Effect Concentration DNEL: derived no-effect level PBT: Persistent Bioaccumulative Toxic vPvB : very Persistent and very bioaccumulative
List of relevant R phrases and H phrases described in section 3	:	R11: Highly flammable R36 : irritating to eyes R36/38 : irritating to eyes and skin H225: Highly flammable liquid and vapour H319 : causes severe irritation to eyes H315 : causes skin irritation
Advice on training appropriate for workers	:	Safety training for chemical products

"IMPORTANT: This safety data sheet is additional to the technical operating instructions but does not replace them. All the information and recommendations are given in good faith and accurately represent the current state of knowledge. Users are responsible for verifying and validating beforehand the use of the product under the required conditions and for reporting any observations. Users are further alerted to the potential risks incurred if a product is used for purposes other than those for which it is intended. This sheet does not in any way exempt the user from knowing and applying all the texts regulating his activity. He will be solely responsible for taking the necessary precautions when using the product. The statutory regulations mentioned are simply intended to assist the user in fulfilling his obligations with regard to the use of a dangerous product. This list must not be regarded as exhaustive. It does not exempt the user from ensuring that he is not subject to other obligations because of texts not mentioned, which govern storage and use of the product for which he solely is responsible."