Safety data sheet

ClearBand Non-Fat Milk Powder

Product name ClearBand Non-Fat Milk Powder	Catalog no. C1250
Synonyms Non-fat dry milk; skim milk powder	SDS revision -
CAS no. -	Format version / date 1.0 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ClearBand Non-Fat Milk Powder
Product code	C1250
CAS number	-
EC number	-
Recommended use	For research use only; blocking reagent for Western blotting, ELISA and immunodetection.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. Ipekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10, Yakutiye, Erzurum, Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).
Label elements	No hazardous labeling required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements	Avoid generating dust. Use appropriate laboratory hygiene.
Other hazards	Airborne powder may irritate eyes or respiratory tract. Contains milk proteins; avoid exposure in persons with milk allergy. Dust accumulation may present a combustible-dust hazard.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ClearBand Non-Fat Milk Powder
Synonyms	Non-fat dry milk; skimmed milk powder
Concentration	-
Formula	Not applicable - biological mixture.
Molecular weight	Not applicable - mixture.
Mixture	Dried non-fat bovine milk solids; principally milk proteins (including casein), lactose and minerals. Exact component percentages are not available.
Disclosure statement	No hazardous components requiring disclosure identified for comparable non-fat milk powder products.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move person to fresh air. Seek medical advice if coughing or irritation persists.
Ingestion	Rinse mouth with water. Seek medical advice if an adverse reaction occurs, particularly in individuals with milk allergy.
Skin contact	Wash skin with soap and water. Remove contaminated clothing.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy. Seek medical advice if irritation persists.
Immediate medical attention / treatment	Treat symptomatically. Milk protein allergy may be relevant following exposure.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide or foam suitable for the surrounding fire.
Special hazards arising from the substance or mixture	Fine organic powder can form combustible dust clouds. Burning may generate carbon monoxide, carbon dioxide and irritating smoke.
Advice for firefighters	Use self-contained breathing apparatus and protective clothing in a fire.
Further information	Avoid dispersing accumulated powder dust with high-pressure air or water jets.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid dust formation and inhalation. Wear gloves, safety glasses and laboratory coat. Provide adequate ventilation.
Environmental precautions	Avoid release of large quantities to drains and waterways.
Methods and materials for containment and cleaning up	Carefully sweep or vacuum using appropriate dust-control equipment. Transfer into a suitable closed container. Avoid generating airborne dust.
Reference to other sections	See Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Handle in a dry, well-ventilated area. Minimize dust generation. Avoid contact with eyes and inhalation of powder. Do not eat, drink or smoke during handling.
Conditions for safe storage	Store at 2-8 °C in a tightly closed container in a dry place. Protect from moisture and contamination.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limits established. Minimize inhalation of airborne powder dust.

8.2 Exposure controls

Engineering measures	Use adequate general ventilation. Local exhaust recommended if powder dust is generated.
Hygiene measures	Wash hands after handling. Prevent powder contamination of working surfaces.
Eye / face protection	Wear safety glasses with side protection.
Hand protection	Wear suitable protective laboratory gloves.
Skin and body protection	Wear a laboratory coat and closed shoes.
Respiratory protection	If dust is generated and ventilation is inadequate, use an appropriate particulate respirator.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Off-white to cream-colored powder (typical for non-fat dry milk).
Odor	Mild characteristic milk odor.
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	Not applicable - solid
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Combustible organic dust possible; quantitative limits not available.
Upper / lower flammability or explosive limits	Not applicable
Vapor pressure	Not applicable
Vapor density	No data available
Relative density	No data available
Solubility(ies)	Soluble/dispersible in water and aqueous buffers (PBS, TBS, PBST and TBST).
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable - solid
Explosive properties	No product-specific test data available
Oxidizing properties	No oxidizing properties expected.

10 STABILITY AND REACTIVITY

Reactivity	No hazardous reactivity expected under normal conditions.
Chemical stability	Stable when kept dry and tightly closed at 2-8 °C.
Possibility of hazardous reactions	No hazardous reactions expected under normal laboratory use.
Conditions to avoid	Moisture, excessive heat, dust accumulation and sources of ignition.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide and irritating smoke in a fire.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No product-specific acute toxicity data available.
Skin corrosion / irritation	Powder may cause mild mechanical irritation.
Serious eye damage / eye irritation	Dust may cause temporary mechanical irritation.
Carcinogenicity	No product-specific carcinogenicity data available.
Reproductive toxicity	No product-specific data available.
STOT - SE	No data available.
STOT - RE	No data available.
Aspiration hazard	Not applicable to solid powder under normal conditions.

11.2 Potential health effects

Ingestion: Individuals with milk allergy may experience an adverse reaction.
Inhalation: Dust may cause mild respiratory irritation.
Skin: May cause mild irritation or an allergic response in sensitized individuals.
Eyes: Dust may cause mechanical irritation.

11.3 Additional information

No additional information is available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No product-specific ecotoxicity data available.
Persistence and degradability	Organic milk constituents are expected to be biodegradable; no product-specific test data.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No product-specific assessment available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of in accordance with local regulations for laboratory waste. Prevent large releases to drains.
Contaminated packaging	Dispose in accordance with local regulations. Do not reuse contaminated packaging.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	Not regulated	Not regulated	Not regulated	Not applicable	No
IMDG	Not regulated	Not regulated	Not regulated	Not applicable	No
IATA	Not regulated	Not regulated	Not regulated	Not applicable	No

15 REGULATORY INFORMATION

Regulatory information	Regulation (EC) No. 1907/2006 (REACH), Annex II as amended by Regulation (EU) 2020/878; Regulation (EC) No. 1272/2008 (CLP).
Safety, health and environmental regulations / legislation	No additional product-specific regulatory information available.
Chemical Safety Assessment	No product-specific chemical safety assessment available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail