

MATERIAL SAFETY DATA SHEET

Date prepared 2/25/2011

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SECTION I - CHEMICAL PRODUCT & MANUFACTURER :

Commercial names:

BiPRO	Whey Permeate Powder	Sweet Dairy Whey
Alpha-lactalbumin	Instantized BiPRO	Glycomacropeptide(GMP)
BioZate	Beta-lactoglobulin	Immunoglobulin-IgG
Whey Protein Concentrate	Instantized BioZate	VersaPRO
Premium Deproteinized Whey	Instantized Whey Protein Concentrate	Lactose

Chemical name: N/A

Manufacturer: Davisco Foods International, Inc.
11000 W. 78th Street Suite 210
Eden Prairie, MN 55344

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SECTION II - COMPOSITION & INFORMATION ON INGREDIENTS :

CAS Name	CAS number	EINECS Number	% by weight	% metal
Whey	N/A	N/A	100%	N/A

SECTION III - HAZARDS IDENTIFICATION :

Carcinogenicity: NTP : No IARC Monographs : No OSHA Regulated : No

Health hazards: This is an Edible food product. Material is Generally Regarded as Safe (GRAS) by the US Food and Drug Administration. May cause allergic reaction in persons sensitive to dairy proteins.

Physical and chemical hazards : May react with strong oxidizing reagents.

Fire and explosion hazards: Dried dairy powder dusts are Dust Explosion Class St 1 having a maximum rate of pressure rise (K_{st}) of 0-20 Mpa m/s. Dried dairy powders have minimum ignition temperatures in the range of 440-500°C. Minimum thickness for self-ignition of dried dairy powders at 200°C ranges from 8-17mm. Minimum thickness for self-ignition of dried dairy powders at 100°C ranges from 100-320mm.

The information on fire and explosion hazards is referenced from the following sources :

1. Prevention of Fire and Explosion in Spray Drying Plant : A Code of Practice for Designers, Manufacturers, Suppliers and Users. Association of British Preserved Milk Manufacturers. 1987.
2. Health and Safety in Employment Act 1992. Approved Code of Practice for the Prevention ,Detection and Control of Fire and Explosion in New Zealand Dairy Industry Spray Drying Plant. New Zealand Department of Labour. 1993.
3. Dust Explosions in Factories : Precautions Required with Combustible Dusts. New Zealand Department of Labour. 1985.

SECTION IV - FIRST AID MEASURES :

Inhalation: Contact physician immediately if adverse reaction to product develops. Remove affected persons to fresh air.

Ingestion: Contact physician immediately if adverse reaction to product develops.

Contact with eye and skin: Contact physician immediately if adverse reaction to product develops.

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SECTION V - FIRE FIGHTING MEASURES

Flash point: N/A

Flammable limits: LEL : N/A DEL : N/A

Extinguishing media: Determined by surrounding fire.

Special firefighting instructions: When heated to decomposition, emits acid smoke and fumes. Use appropriate protective fire fighting equipment.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Land spill: Sweep up spilled powder and dispose of in waste receptacle.

Water spill: N/A

SECTION VII - STORAGE AND HANDLING

Precautionary measures: Store in appropriate food storage facility. Avoid excessive dust.

Loading / Unloading /Storage temperature: Ambient.

Storage Pressure: Atmospheric.

Usual shipping containers: Sealed bags shipped on pallets in dry vans or containers.

SECTION VIII - EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure controls- TLV : N/A

Personal protective equipment: N/A

Respiratory protection: If dust exposure causes irritation, use approved respiratory dust control methods.

Protective clothing: If dust exposure causes irritation, cover exposed skin as necessary.

Eye/face protection: If dust exposure causes irritation, cover exposed areas as necessary.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES :

Appearance: White to off-white powder

Odor: Odorless to slight milky odor

Boiling point range: N/A

Flashpoint: N/A

Density: 0.2 to 0.8 g/cc

Solubility: Solubility in water : Complete
Solubility in organic solvent : N/A

Viscosity: N/A Dry powder.

SECTION X – STABILITY AND REACTIVITY :

General : This product is stable and a hazardous polymerization will not occur.

Incompatible materials : N/A

Hazardous decomposition products : Thermal decomposition may produce carbon monoxide.

Conditions to avoid : N/A

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SECTION XI - TOXICOLOGICAL INFORMATION :

None found for this product.

SECTION XII – ECOLOGICAL INFORMATION :

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS :

Dispose of in accordance with local regulations in a sanitary landfill or other approved method for the disposal of food products.

SECTION XIV - TRANSPORT INFORMATION :

Road transport (ADR) : no classification.

Railway transport (RID) : no classification.

Maritime transport (IMDG) : no classification.

Air transport (ICAO/IATA) : no classification.

SECTION XV – REGULATORY REFERENCES :

Classification & Labels : Food product. FDA Generally Regarded as Safe (GRAS)

Risks : N/A

Safety advices : Avoid excessive dust.

Regulatory references : N/A

SECTION XVI - OTHER INFORMATION :

This information is furnished without warrantee, expressed or implied, except that it is accurate to the best knowledge of Davisco Foods International, Inc. The data on this sheet relates only to the specific material designated above. Davisco Foods International, Inc. assumes no legal responsibility for use or reliance upon these data.