133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535 Tel: +65-6227 6365 Fax: +65-6225 6286

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Material Safety Data Sheet SOY PROTEIN CONCENTRATES

Section 1 - Product Identification

Synonyms : Concentrated Soy Protein

Molecular Weight : Not Applicable Chemical Formula : Not Applicable

Company Identification : Tradeasia International Pte. Limited

Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore

Tel: +65-6227 6365 Fax: +65-6225 6286

Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use The product is used in food manufacturing, in particular in:

- Animal Feed
- Meat Products
- Bakery Products
- Milk Replacement

Section 2 – Composition/Information on Ingredients

The product contains greater than 68.0 percent (%) soy protein

Chemical Name	EC No/CAS No	Purity, %
Concentrated Soy Protein	232-720-8/9010-10-0	
		Min. 68.0

Section 3 – Hazards Identification

3.1 Classification of the substance according to GHS

3.1.1 Physical Hazards

Flammable

Avoid open flames or other ignition sources

3.1.2 Health Hazards

Eve irritant

May cause slight eye irritation.

Skin irritant

Might cause skin irritation, very low possibility in normal industrial handling

Ingestion

No expected hazard due to ingestion during normal industrial handling. May produce allergic reaction.

Inhalation

Might cause respiratory tract irritation. May produce allergic reaction.

3.2. GHS Label elements, including precautionary statements



Causes eye and skin irritation



Avoid open flames or other ignition sources

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3.3. Other hazards which do not result in classification

Soy Protein Concentrate is a white or yellow odourless, powdered substance that is not flammable, combustible, or explosive.

It has low acute oral and dermal toxicity.

Section 4 – First-Aid Measures

4.1. Description of first aid mesaures

Skin contact

Wash immediately with water if skin irritation is experienced upon contact.

Eve contact

Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Inhalation

If symptoms such as nose or throat irritation are observed, remove to fresh air. Consult a physician immediately if allergic reactions are experienced.

Ingestion

No specific treatment required as soy protein concentrate is commonly used as a component in food. Consult a physician immediately if allergic reactions are experienced.

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

N.A.

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

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Any fire extinguishing media may be used on nearby fires (Water, Carbon dioxide, Powder).

5.2. Specific hazards arising from the chemical

Dust explosion might be caused by build-up of concentrated soy protein dust.

5.3. Special protective actions for fire-fighters

Not Applicable

5.4 Flash Point

Not Applicable

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. In case of exposure to prolonged or high level of airborne dust, wear a personal respirator in compliance with national legislation.

6.2. Environmental precautions

Not Applicable. Concentrated soy protein is fully biodegradable.

6.3. Methods and material for containment and cleaning up

Soy protein concentrate should be contained and collected using absorbent materials with affected areas being washed thoroughly.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Handle in areas with adequate ventilation to avoid inhalation of dust and avoid direct contact with skin or eyes. Wear suitable personal protective and respiratory equipment. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

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Store in a dry and cool place with adequate ventilation. Containers should be tightly sealed to avoid contamination. Avoid dust formation and ignition sources in areas where dust might be generated.

Section 8 - Exposure Controls/Personal Protection

8.1. Control parameters

Concentration of airborne dust should be kept low according to local exposure limits.

8.2. Appropriate engineering controls

Use local exhaust ventilation to keep airborne concentrations of dust below local permissible exposure levels.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection

In case of prolonged exposure to dust wear a personal respirator in compliance with local requirements.

Eyes and hands protection

Personal protective equipment such as goggles and gloves may be worn to reduce the risk of skin and eye irritation.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Yellow or white granule/powder

Odour: odourless

Odour threshold: Not Applicable

pH: 6.0 - 7.4

Melting point: Not Applicable
Boiling point: Not Applicable
Flash point: Not Applicable
Evaporation rate: Not Applicable

Explosive Properties: St $1 - K_{St} = 85$ bar-m/s

Solubility in water: Soluble

Auto-ignition temperature : No information available Decomposition temperature : No information available

Section 10 – Stability and Reactivity

10.1. Chemical Stability

Soy protein concentrate is a stable product under normal conditions as described in section 7.

10.2. Possibility of hazardous reactions

No hazardous reactions.

10.3 Shelf Life

24 months under cool and dry conditions

10.4. Conditions to avoid:

Avoid dust formation and presence of ignition sources.

10.5. Incompatible materials

Not Applicable.

10.6. Hazardous decomposition products

Not Applicable.

Section 11 – Toxicological Information

11.1. Information on toxicological effect

Soy protein concentrates do not contain toxic or hazardous substances.

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11.2. Substances

Acute toxicity⁽²⁾

Not Applicable

Skin corrosion / irritation

Mild skin irritation might be experienced due to contact with concentrated soy protein dust.

Serious eye damage/ irritation

Concentrated soy protein dust might cause irritation in eyes.

Respiratory or skin sensitization

Dust might cause allergic reaction and irritation of respiratory tract.

Germcell mutagenicity

Not Applicable

Carcinogenicity

Not Applicable

Reproductive toxicity

Not Applicable

STOT-single exposure

Not Applicable

STOT-repeated exposure

Not Applicable

Aspiration Hazard

Not Applicable

Section 12 – Ecological Information

12.1. Toxicity

Soy protein concentrate is biodegradable and does not harm the environment

Section 13 – Disposal Considerations

13.1. Disposal methods

Dispose of in compliance with local requirements and regulations. Flush area with large amounts of water after disposing of waste.

Section 14 – Transport Information

No special requirements or restrictions for transport of soy protein concentrate via land, sea, or air.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations

Soy protein concentrate is not known to be hazardous and toxic and is not listed in any chemical inventory listing.

Section 16: Additional Information

16.1. Main changes made to the previous version of this Material Safety Data Sheet (MSDS):

• This MSDS complies with ISO 11014; the requirements of UN-GHS

Revision No	Revision content
01	• This SDS is updated in accordance with the GHS (Rev.6) (2015)-Guidance on the
	Compilation of Safety data Sheets.

16.2. List of abbreviation and acronyms used in this MSDS

SDS: Safety Data Sheets

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CAS No: Chemical Abstracts Service number

EC No: EINECS Number: European Inventory of Existing Commercial Substances

GHS: Globally Harmonised System of Classification and Labelling

N.A.: Not Applicable

TLV: Threshold Limit Value

UN: United Nations

16.3. Disclaimer of Liability

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