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# Avani Food Products

Nr Khari Rivar, Opp Ravala temple, Shobhasan Road, Kasbo, Mehsana-384001, Gujarat, INDIA.

## Material Safety Data Sheet CASEIN(MSDS)

Date 24 March 2009

### 1. Preparation Description/Supplier description

Commercial Product name:- Casein

Application :- Is use in Pharmaceuticals, Leather finishing, Paints, Adhesive Etc

Supplier : AVANI FOOD PRODUCTS  
NEAR KHARI RIVAR, OPP. RAVAL TEMPLE,  
SHOBHASAN ROAD, KASBO,  
MEHSANA-384001. (GUJARAT -INDIA)

### 2. Product Identification

Synonyms: Milk protein

CAS No.: 9000-71-9

Molecular Weight: Not applicable.

Chemical Formula: Not applicable.

Product Codes: E397



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### 3. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Casein	9000-71-9	90 - 100%	No

### 4. Hazards Identification

#### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Health Rating: 0 - None

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None

Contact Rating: 0 - None

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Orange (General Storage)

#### Potential Health Effects

##### Inhalation:

No adverse health effects expected from inhalation.

##### Ingestion:

Not expected to be a health hazard via ingestion.

##### Skin Contact:

Not expected to be a health hazard from skin exposure.

##### Eye Contact:

Not expected to be a health hazard.

##### Chronic Exposure:

No adverse health effects expected.

##### Aggravation of Pre-existing Conditions:

No information found.

### 5. First Aid Measures

#### Inhalation:

Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.



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## **Ingestion:**

Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

## **Skin Contact:**

Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

## **Eye Contact:**

Not expected to require first aid measures. Wash thoroughly with running water. Get medical advice if irritation develops.

## **6. Fire Fighting Measures**

### **Fire:**

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

### **Explosion:**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum ignition temperature, dust cloud: 460C.

### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

### **Special Information:**

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## **7. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## **8. Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## **9. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:**



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OSHA Permissible Exposure Limit (PEL):

15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts.

- ACGIH Threshold Limit Value (TLV):

10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

## Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

## Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

## Skin Protection:

Wear protective gloves and clean body-covering clothing.

## Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 10. Physical and Chemical Properties

**Appearance:** White to off-white powder or granules.

**Odor:** Faint characteristic odor.

**Solubility:** Negligible (< 0.1%)

**Specific Gravity:** 1.25

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 10

**Boiling Point:** No information found.

**Melting Point:** No information found.

**Vapor Density (Air=1):** Not applicable.



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Vapor Pressure (mm Hg): Not applicable.  
 Evaporation Rate (BuAc=1): No information found.

## 11. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.  
**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** No information found.  
**Conditions to Avoid:** Moisture

## 12. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer Lists\-----			
-----NTP Carcinogen-----			
Ingredient	Know	Anticipated	IARC Category
Casein (9000-71-9)	No	No	None

## 13. Ecological Information

**Environmental Fate:**  
 No information found.  
**Environmental Toxicity:**  
 No information found.

## 14. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 15. Transport Information

Not regulated.



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## 16. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Casein (9000-71-9)	Yes	Yes	No	Yes
-----\Chemical Inventory Status - Part 2\-----				
		--Canada--		
Ingredient	Korea	DSL	NDSL	Phil.
Casein (9000-71-9)	Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----				
	-SARA 302-		-SARA 313-	
Ingredient	RQ	TPQ	List	Chemical Catg.
Casein (9000-71-9)	No	No	No	No
-----\Federal, State & International Regulations - Part 2\-----				
		-RCRA-	-TSCA-	
Ingredient	CERCL	261.33	8(d)	
Casein (9000-71-9)	No	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No

Reactivity: No(Pure / Solid)

**Australian Hazchem Code:** No information found.

**Poison Schedule:** No information found.



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## WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

## 17. Other Information

**NFPA Ratings:** Health: 0 Flammability: 1 Reactivity: 0

### Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:** None.

**Label First Aid:** Not applicable.

**Product Use:** Laboratory Reagent.

**User Notes For further health & safety information contact :** Health & safety officer.

**Notes:** The purpose of the above information is to describe the products only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as specification. Customer should satisfy themselves as to the suitability and completeness of such information for their own particular etc.

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