

Material Safety Data Sheet

SECTION 1: Company Identification and Product Information

PRODUCT NAME OR IDENTITY:	Cetrimide Broth				
MANUFACTURER'S NAME:	Microclar Argentina S.A.	EMERGENCY PHONE N°:	(54) 11 4731-0015		
	Uruguay 830, Tigre		FAX N°:	(54) 11 4512-4070	
	Buenos Aires, Argentina		E-MAIL :	info@microclargroup.com	
DATE PREPARED OR REVISED:	October 2011				

SECTION 2: Composition / Information on Hazardous Ingredients

HAZARDOUS COMPONENTS	CAS-N°	%	EG-N°	HAZARD SYMBOL
Magnesium Chloride	7786-30-3	3.1%	232-094-6	Xi (Irritant)
Potassium Chloride	7447-40-7	22.1%	231-211-8	Xi (Irritant)

SECTION 3: Health Hazard Identification

ROUTE(S) ENTRY:	Inhalation <input checked="" type="checkbox"/>	Skin <input checked="" type="checkbox"/>	Ingestion <input checked="" type="checkbox"/>
HEALTH HAZARDS: <i>(acute and chronic)</i>	IRRITANT. Irritating to eyes, respiratory system, and skin. May be harmful if swallowed.		
CARCINOGENICITY:	IARC Monographs <input type="checkbox"/>	OSHA Regulated <input type="checkbox"/>	

SIGNS AND SYMPTOMS OF EXPOSURE:

Inhalation of high concentrations of dust may cause nasal or lung irritation. Contact with skin may cause irritation and redness. Potassium Chloride can cause moderate eye irritation with redness, tearing, and possible abrasions. Ingestion of large quantities can produce gastrointestinal disturbances, vomiting, heart irregularity, weakness, and circulatory problems.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Chronic exposure can cause dermatitis. Persons with impaired kidney function may be more susceptible to the effects of this substance.

SECTION 4: First Aid Measures

INGESTION:	If swallowed, wash out mouth with water, provided person is conscious. Never give anything by mouth to an unconscious person. Seek medical attention.
INHALATION:	If inhaled, supply fresh air or oxygen. Seek medical attention. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen.
EYE CONTACT:	Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
SKIN CONTACT:	Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse.

SECTION 5: Fire and Explosion Hazard Data

FLASH POINT (*Method Used*): N/A

FLAMMABLE LIMITS: LEL – N/A, UEL – N/A

EXTINGUISHING MEDIA:

Use alcohol foam, dry chemical, or carbon dioxide. Water may be ineffective.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear protective equipment and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

During heating or in case of fire, poisonous gases are produced. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

SECTION 6: Accidental Release Measures

PERSONAL PRECAUTIONS:

Shut off all sources of ignition, ventilate spill area. Wear suitable protective clothing, gloves, and eye protection. Wear self-containing breathing apparatus, rubber boots, and heavy rubber gloves. Place contaminated material in a chemical waste container.

ENVIRONMENTAL PRECAUTIONS:

Prevent dispersion of material. Do not allow to enter drains or water courses. Water runoff can cause environmental damage.

CLEAN-UP METHODS:

Contact safety officer and ventilate area. Absorb spill with inert material, including dry-lime, sand, or soda ash, then place into a chemical waste container using non-sparking tools. Wash spill site.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Protect against physical damage. Ensure good ventilation / exhaustion. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched.

STORAGE:

Keep container tightly closed. Keep away from incompatible material. Storage area should be cool, dry and well ventilated. Containers of this material may be hazardous when empty since they retain product residues.

OTHER PRECAUTIONS:

Remove contaminated clothing immediately. Ensure good ventilation. Prevent dust formation.

SECTION 8: Exposure Controls / Personal Protection

OES: N/A

ACGIH TLV: N/A

ENGINEERING MEASURES:

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US), dust mask type N95 or CEN (EU) type P1. Proper ventilation, safety shower, and eye bath required.

RESPIRATORY PROTECTION:

With sufficient ventilation, breathing apparatus may not be necessary. In the event of possible spill / exposure, use dust mask to EN 149 FFP2S.

SECTION 8: Exposure Controls / Personal Protection

VENTILATION: Local Exhaust: 50 – 100 CFM

SPECIAL: Safety shower and eye wash.

PROTECTION GLOVES:

Compatible chemical-resistant gloves

EYE PROTECTION:

Safety glasses or chemical goggles to EN 166, 167, and 168.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Uniform, lab coat, or disposable lab wear.

WORK / HYGIENIC PRACTICES:

Follow the usual precautionary measure for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.

SECTION 9: Physical and Chemical Properties

BOILING POINT:	1,500 °C (Potassium Chloride)	SPECIFIC GRAVITY:	2.32 g/cm ³ (Magnesium Chloride) 1.98 g/cm ³ (Potassium Chloride)
VAPOR PRESSURE:	N/A	MELTING POINT:	714°C (Magnesium Chloride), 770°C (Potassium Chloride)
VAPOR DENSITY: (AIR=1)	N/A	SOLUBILITY IN WATER:	Soluble (Magnesium Chloride) Soluble (Potassium Chloride)
APPEARANCE AND ODOR:	White powder or crystals (Potassium Chloride) Solid white, odorless (Magnesium Chloride)		

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable Conditions to Avoid: Stable under recommended storage conditions. Protect from moisture.

Unstable

INCOMPATIBILITY (Materials to Avoid):

Strong acids and strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Hydrogen chloride gas, Potassium oxides, and Magnesium oxide.

HAZARDOUS POLYMERIZATION:

May occur

Will no occur Conditions to Avoid: Moisture, incompatible materials.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50: ORL-RAT, 2,800 mg/kg (Magnesium Chloride)

LD50: ORL-RAT, 2,600 mg/kg (Potassium Chloride)

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY TEST: LC50 / 48 hours: 7,700 mg/L, *Leuciscus idus* (Golden orfe) (Magnesium Chloride)
LC50 / 96 hours: 880 mg/L, *Pimephales promelas* (fathead minnow) (Potassium Chloride).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with all applicable federal, state, and local environmental regulations. Keep waste separate. Contact a licensed professional waste disposal service to dispose of this material if questions arise. Do not allow product to reach ground water, water bodies, or sewage system.

CONTAINER INFORMATION:

Do not remove labels from containers until they have been cleaned.

SECTION 14: TRANSPORT INFORMATION

MAGNESIUM CHLORIDE, POTASSIUM CHLORIDE:*

UN #

Packing Group:

Hazard Class:

IATA: Non-Hazardous for air transport

**These chemicals are not regulated for transportation and considered non-hazardous for transport.*

SECTION 15: REGULATORY INFORMATION

EU REGULATIONS

HAZARD SYMBOL(S):

MAGNESIUM CHLORIDE: Xi (Irritant)

POTASSIUM CHLORIDE: Xi (Irritant)

SAFETY PHRASES: N/A

MAGNESIUM CHLORIDE: S 22 / 24 / 25, Do not breathe dust. Avoid contact with skin and eyes.

POTASSIUM CHLORIDE: S 22 / 24 / 25, Do not breathe dust. Avoid contact with skin and eyes.

SECTION 16: OTHER INFORMATION

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