

Item #28971

MATERIAL SAFETY DATA SHEET



SUBSIDIARY OF MERCK & CO., INC.

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Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME: **Coagulant Aid 233**

CHEMICAL DESCRIPTION: Ultra-high molecular weight, nonionic polymer
PRODUCT CLASS: Water treatment
MSDS CODE: 0202-04-01-91

Section 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
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No ingredients listed in this section

HAZARD COMMUNICATION STATUS: This product is not considered to be hazardous according to the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

This product poses little or no immediate hazard. Product solutions are extremely slippery.

PRIMARY ROUTES OF ENTRY: None

TARGET ORGANS: None

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Unknown

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POTENTIAL HEALTH EFFECTS:

EYE CONTACT: This product would not be expected to produce irritation upon contact with the eye.

SKIN CONTACT: The product is not expected to cause skin irritation upon contact. Data indicate that this product will not produce an allergic skin reaction or be absorbed through the skin in harmful amounts.

INGESTION: This product would be expected to be practically non-toxic by ingestion.

INHALATION: This product is not expected to present an inhalation hazard.

SUBCHRONIC, CHRONIC:

No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to the product.

Industrial, medical and environmental health surveys of personnel in plants manufacturing polyacrylamide show a very low degree of hazard from products substantially free of residual acrylamide monomer.

CARCINOGENICITY:

NTP:

No ingredients listed in this section

IARC:

No ingredients listed in this section

OSHA:

No ingredients listed in this section

Section 4. FIRST AID MEASURES

EYE CONTACT: Not expected to require first aid measures.

SKIN CONTACT: Not expected to require first aid measures.

INGESTION: Not an expected route of overexposure.

INHALATION: Not an expected route of overexposure.

Section 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA: Water, carbon dioxide or dry chemical

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

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FIRE & EXPLOSION HAZARDS: Product emits toxic gases under fire conditions.

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, ammonia and/or oxides of nitrogen.

NFPA RATINGS: Health = 0 Flammability = 1 Reactivity = 0 Special Hazard = None

Hazard rating scale: 0= Minimal 1= Slight 2= Moderate 3= Serious 4= Severe

Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wearing appropriate personal protective equipment, sweep up material and place into suitable container. Spilled product may make floor slippery; spills should be cleaned up immediately to prevent falls.

Section 7. HANDLING AND STORAGE

HANDLING: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing.
Wash thoroughly after handling.
Keep container closed when not in use.

STORAGE: Do not store in iron, copper or aluminum containers.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Chemical splash goggles recommended as a good industrial hygiene practice.

SKIN PROTECTION: Chemical resistant gloves recommended as a good industrial hygiene practice.

RESPIRATORY PROTECTION: If dusty conditions are encountered, wear a NIOSH approved dust respirator.

ENGINEERING CONTROLS: No specific recommendations.

UNSATISFACTORY MATERIALS OF CONSTRUCTION: Iron, copper, aluminum

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Limited by viscosity

VAPOR PRESSURE: Not applicable

SPECIFIC GRAVITY: Not applicable

VAPOR DENSITY (air= 1): Not applicable

pH: 5.5 - 7.5 (0.5% soln)

% VOLATILE BY WEIGHT: 8 - 12 (water)

FREEZING POINT: Not available

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APPEARANCE AND ODOR: Off-white granular powder with no odor.

Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No specific information.

INCOMPATIBILITY: Strong oxidizers

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, ammonia and/or oxides of nitrogen.

Section 11. TOXICOLOGICAL INFORMATION

ON PRODUCT:

Oral LD₅₀ (rat): 2500 mg/kg

Dermal LD₅₀ (rabbit): 10,000 mg/kg

Inhalation LC₅₀ (rat): 720 mg/L (4 hr)

Eye irritation: Slight rabbit eye irritation observed at 24 hours (score 0-4) disappeared by 48 hours.

Skin irritation: The primary irritation index is 0/8.

Section 12. ECOLOGICAL INFORMATION

ON PRODUCT:

Environmental data:

BOD ~ 100 mg/L*

COD ~ 9000 mg/L*

* Based on a 1% solution

ON INGREDIENTS:

Chemical Name

Aquatic Toxicity Data

No ingredients listed in this section

Section 13. DISPOSAL CONSIDERATIONS

RCRA STATUS: Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

DISPOSAL: Dispose of in accordance with local, state and federal regulations.

Section 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Hazard Class: Not restricted

Proper Shipping Name: Not applicable

Label: None

ID Number: Not applicable

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Section 15. REGULATORY INFORMATION

OSHA Hazard Communication Status: Nonhazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA reportable quantity of EPA hazardous substances in product:

Chemical Name

RQ

No ingredients listed in this section

Product RQ: Not applicable (Notify EPA of product spills exceeding this amount.)

SARA TITLE III:

Section 302 Extremely Hazardous Substances:

Chemical Name

CAS #

RQ

TPO

No ingredients listed in this section

Section 311 and 312 Health and Physical Hazards:

Immediate

Delayed

Fire

Pressure

Reactivity

[no]

[no]

[no]

[no]

[no]

Section 313 Toxic Chemicals:

Chemical Name

CAS #

% by Weight

No ingredients listed in this section

Section 16. OTHER INFORMATION

HMIS RATINGS: Health = 0 Flammability = 1 Reactivity = 0
Personal Protective Equipment = B

Hazard rating scale: 0= Minimal 1= Slight 2= Moderate 3= Serious 4= Severe

MSDS REVISION SUMMARY: Supersedes MSDS issued on 10/02/93. The MSDS has been revised in Section 11.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALGON CORPORATION MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

PREPARED BY: P.J. Maloney

