

Material Safety Data Sheet

MSDS Revision Date: 9/6/11

Page 1 of 4

PRODUCT: Robinfloc 4715



1. Product and Company Identification

Product Identity: Robinfloc 4715	Chemical Formula: mixture Molecular Weight: mixture
Synonyms: n.a.	

Brenntag Mid-South Inc. 1405 Hwy 136 W Henderson, KY 42420	Technical Information: 270-830-1222 Emergency Number: 800-424-9300 (CHEMTREC) Emergency Number: 703-5273887 (International)
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2. Hazards Identification

Emergency Overview

WARNING!

Potential Health Effects

Inhalation: Inhaling dust or mist created during use may injure the respiratory system and cause an adverse lung reaction.

Ingestion: May cause gastrointestinal discomfort.

Skin Contact: Contact with skin may cause irritation, redness and swelling of the skin.

Eye Contact: Direct contact with the eye may cause irritation, redness and swelling of the eyes. Chronic exposure to aluminum salts may cause conjunctivitis.

3. Composition/Information on Ingredients

CAS#	Chemical Name	Percent by Weight
1327-41-9	Aluminum Chlorohydrate 50%	33 - 35
26062-79-3	Cationic polymer	30 - 32
7732-18-5	Water	Balance

4. First Aid Measures

Inhalation: Move to fresh air. If breathing has stopped, perform artificial respiration. Call a physician.

Ingestion: Do not induce vomiting. Immediately give large quantities of water. Get medical attention immediately.

Skin Contact: Flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Get medical attention immediately.

FORM DATE: 6/4/2009

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Material Safety Data Sheet

MSDS Revision Date: 9/6/11

Page 2 of 4

PRODUCT: Robinfloc 4715



5. Fire Fighting Measures

FLASH POINT (METHOD USED): N.A.

FLAMMABLE LIMITS (% BY VOLUME): N.A.

EXTINGUISHING MEDIA: Use agent suitable for type of surrounding fire. Exposed material may be cooled with water.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear protective clothing including a self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In a fire, this product may build up pressure and rupture a sealed container. Spray container with water to keep cool. Product may decompose to HCl in a fire.

6. Accidental Release Measures

Use absorbent material to collect and contain. Place solid residue into drums or other appropriate containers for off-site disposal. After cleaning, flush away traces with water. Do not flush into surface waters.

7. Handling and Storage

Handling: Avoid contact with skin, eyes, and clothing. Do not breathe vapors or mist. When using practice good hygiene.

Storage: Keep in a dry cool place. Avoid exposure to continuous high temperatures. Freezing will affect the physical condition and may damage the material.

8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: None for normal use.

VENTILATION: Maintain adequate local ventilation.

PROTECTIVE GLOVES: Neoprene gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Safety shower and eyewash fountain and clothing to prevent prolonged contact.

9. Physical and Chemical Properties

Appearance:	Clear liquid	Vapor Density:	No Information Found
Odor:	Odorless	Specific Gravity:	1.23
pH:	2.0 – 4.0	Solubility in Water:	complete
Boiling Point:	230°F (110°C)	Evaporation Rate:	No Information Found
Vapor Pressure:	No Information Found		

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Material Safety Data Sheet

MSDS Revision Date: 9/6/11

Page 3 of 4

PRODUCT: Robinfloc 4715



10. Stability and Reactivity

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Alkali.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride or other toxic gases.

11. Toxicological Information

Immediate (acute) effects: Polyaluminum hydroxychloride: LD50 (oral, rat) = 681 mg/kg

Delayed (subchronic and chronic) effects: Data not available.

Cationic polymer:

Inhalation: The product is not expected to be toxic by inhalation.

Irritation: Skin: Not irritating. Eyes: May cause slight eye irritation.

Sensitization: The results of testing on human volunteers (Human Insult Patch Test) showed this material to be non-sensitizing.

Chronic toxicity: A one-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects.

Other information: Not mutagenic in AMES Test. Not mutagenic in micronucleus test on mice. Not teratogenic, NOEL = 25 mg/kg. A multi-generation study in rats showed no reproductive/ developmental toxicity at a dose of 125 mg/kg/day.

12. Ecological Information

Cationic polymer:

Aquatic toxicity: Toxicity to fish: LC50/96 hours > 10 mg/l (OECD 203). Toxicity to daphnia: EC50/48 hours > 10 mg/l (OECD 202). Toxicity to algae: Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

Environmental fate: Persistence and degradability: Not readily biodegradable. Hydrolysis: Does not hydrolyze.

Bioaccumulation: Does not bioaccumulate. Other ecological information: The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

13. Disposal Considerations

Dispose of in accordance with all applicable federal, state, and local regulations.

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Material Safety Data Sheet

MSDS Revision Date: 9/6/11

Page 4 of 4

PRODUCT: Robinfloc 4715



14. Transport Information

PROPER SHIPPING NAME: Not Regulated.

HAZARD CLASS: N.A.
N.A.

UN/NA: N.A.

PACKING GROUP:

D.O.T. LABEL REQUIRED: N.A.

REPORTABLE QUANTITY OF PRODUCT: N.A.

15. Regulatory Information

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA inventory.

SARA TITLE III: HAZARD CLASSIFICATIONS: Acute: yes Chronic: no Fire: no Pressure: no Reactivity: no

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(R) TQ
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

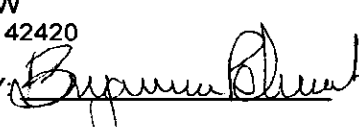
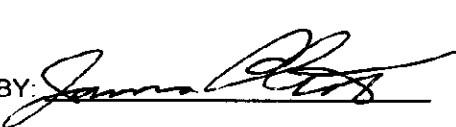
16. Other Information

HMIS HAZARD RATING: Health 1 Flammability 0 Reactivity 0

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PREPARED BY:  APPROVED BY: 

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