

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: KEMIRA PAX-XL19
Chemical Family: Aqueous Salt Solution
CAS Number: Blend

Company Identification

Kemira Chemicals, Inc.
1000 Parkwood Circle, Suite 500
Atlanta, Georgia 30339 USA
800-347-1542 (For product information)
* (For emergencies)
*1-613-996-6666 (CANUTEC for Canada); 1-800-424-9300 USA, or 1-703-527-3887 Int'l (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
POLY(ALUMINUM HYDROXY) CHLORIDE	Confidential	1327-41-9

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

EXPOSURE GUIDELINES:

POLY(ALUMINUM HYDROXY) CHLORIDE
OSHA PEL: 2 (as Al) mg/m³

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Corrosive liquid. May cause severe skin irritation. May cause severe eye, nose, throat, and lung irritation.

EYE:

Risk of serious damage to eyes. Causes severe irritation and burns and corneal damage.

SKIN:

A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Causes irritation, possible burns on prolonged contact.

INHALATION:

Avoid breathing vapors or mists. Prolonged or excessive inhalation may cause respiratory tract irritation or burns of the mucous membranes.

INGESTION:

Ingestion can cause irritation of the mouth, throat, and esophagus. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with preexisting diseases of the lungs may have increased susceptibility.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. Contact a physician.

SKIN CONTACT FIRST AID:

Remove contaminated clothing and shoes. Wash affected area immediately with large amounts of soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Get medical attention if cough or other symptoms develop.

INGESTION FIRST AID:

If swallowed, do not induce vomiting. Give water or milk to dilute. Never give anything by mouth to an unconscious person. Contact a physician.

NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

PMCC Flash Point: None

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: None

UEL: None

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Dike and collect water used to fight fire. Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

COMBUSTION PRODUCTS:

Decomposition may produce hydrogen chloride and / or chlorine.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment. Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater.

INITIAL CONTAINMENT:

Contain spilled material. Absorb spills with inert material.

LARGE SPILLS PROCEDURE:

Contain spilled liquid with sand or earth. Avoid runoff into storm sewers and ditches which lead to waterways. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Clean up area by absorbent material.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid contact with skin and eyes. Avoid breathing mists. Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Store in a secure area. Wash hands thoroughly after handling.

STORAGE PRECAUTIONS:

Avoid contact with zinc, aluminum and copper. This product is slippery when spilled. Keep in a cool, well-ventilated place away from alkali. Keep container tightly closed. Avoid extreme temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Clear
ODOR:	Slight
BOILING POINT:	210-215 F @ 760 mm Hg
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.32 - 1.36 @ 25 C (77 F) (Water = 1)
MELTING/FREEZING POINT:	< 32 F
PH:	4.0 to 4.5 @ 100 wt/wt%
VISCOSITY:	~600 cps
EVAPORATION RATE:	< 1 (Butyl Acetate = 1)
DENSITY:	11.2 lbs/gal

10. STABILITY AND REACTIVITY

STABILITY:

This compound is stable at ambient conditions.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Strong bases or alkaline water. Avoid contact with strong oxidizing agents. Incompatible with alkaline and alkaline earth metals.

DECOMPOSITION:

Decomposition may produce hydrogen chloride and / or chlorine.

CONDITIONS TO AVOID:

Avoid extreme temperatures.

11. TOXICOLOGICAL INFORMATION

No information available.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Avoid disposal into waste water treatment facilities. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

EPA Hazardous Waste: D002 - CORROSIVE.

RCRA RQ: 100 lbs.

CONTAINER DISPOSAL:

Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

PRODUCT LABEL: KEMIRA PAX-XL19
D.O.T. SHIPPING NAME: Corrosive Liquid, Acidic, Inorganic, N.O.S., (Polyaluminum chloride), 8, UN3264, III

MISCELLANEOUS:

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

15. REGULATORY INFORMATION

SARA 311 Categories:

Immediate (Acute) Health Effects: Yes
Delayed (Chronic) Health Effects: No
Fire Hazard: No
Sudden Release Of Pressure Hazard: No
Reactivity Hazard: No

REGULATORY LISTS SEARCHED:

01 = SARA 313	02 = SARA 302/304
03 = ACGIH TWA	04 = ACGIH Calc TLV
05 = CANADIAN WHMIS	06 = CA Proposition 65
07 = CERCLA 302.4	08 = ACGIH STEL
09 = OSHA PEL	10 = OSHA Ceiling

EEC Symbols and Indications of Danger:

Not Determined

WHMIS Hazard Symbols:

Class D-2(B) - Materials Causing Other Toxic Effects, Class E - Corrosive Material

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

This material or all of its components are listed on the Canadian Domestic Substances List (DSL).

16. OTHER INFORMATION

REASON FOR ISSUE:	NEW COMPANY ADDRESS
PREPARED BY:	PRODUCT SAFETY SPECIALIST
APPROVAL DATE:	August 17, 2011
SUPERCEDES DATE:	August 17, 2011
MSDS NUMBER:	300001002616

HMIS Rating:

Health - 2
Flammability - 0
Reactivity - 0

NFPA Rating:

Health - 2
Flammability - 0
Reactivity - 0

REVISION STATEMENT:

Revised information in section(s): N/A.

ABBREVIATIONS USED IN THIS MSDS:

TLV - THRESHOLD LIMIT VALUE	TWA - Time Weighted Average
STEL - SHORT TERM EXPOSURE LIMIT	TPQ - Threshold Planning Quantity
RQ - REPORTABLE QUANTITY	PEL - Permissible Exposure Level
C - CEILING LIMIT	CAS - Chemical Abstract Service Number
NDA - NO DATA AVAILABLE	N/A - Not Applicable or Not Available

MSDS PREPARATORY STATEMENT:

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by Kemira.

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the best opinion on the subject as of the date on this sheet. However, no warranty, guarantee or representation, express or implied, is made by Kemira as to the correctness or sufficiency of this information or to the results to be obtained from the use thereof.

END OF MSDS
