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## Material Safety Data Sheet

### SECTION I – PRODUCT IDENTIFICATION AND USES

<b>Product name</b>	<b>ANIONIC POLYACRYLAMIDE, PAM for short of Polyacrylamide</b>
<b>Applications</b>	Works as a flocculant and/or coagulant for mineral processing Other varied applications – water treatment, paper mill, textile etc...
<b>Sales representative</b>	<b>LMS Canada</b>

### SECTION II – CHEMICAL INGREDIENTS

<b>Main ingredient</b>	(CH <sub>2</sub> CHCONH <sub>2</sub> ) <sub>n</sub> polymer
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### SECTION III – PHYSICAL & CHEMICAL DATA

<b>Physical state</b>	Solid
<b>Appearance</b>	Colorless or white granular powder
<b>Odour</b>	None
<b>Vapor pressure</b>	N/A
<b>Melting point</b>	Approx 200 °C
<b>Solubility</b>	20 – 30%
<b>pH value</b>	Approx 6.0
<b>Bulk density</b>	Varies with granular size and moisture content. For rough calculation purpose: approx 0.7g /cm <sup>3</sup>

### SECTION IV – FIRE AND EXPLOSION

<b>Flammability &amp; explosion</b>	Flammable. Dust explosions may occur if material is efficiently fine and dispersed in air.
<b>Means of extinction</b>	Foam, CO <sub>2</sub> or dry chemical powder. Use water with precautions as this material becomes extremely slippery and swells when it has absorbed water. It may lead a mechanical bursting hazard under certain conditions. Full protective equipment and self contained breathing apparatus must be worn when combating fire.
<b>Flashpoint</b>	N/A

### SECTION V – STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable at room temperature
<b>Incompatibility with other substances</b>	Flammability may be enhanced by presence of strong oxidizers. Swells enormously and becomes much heavier when material absorbs water, mechanical bursting hazard may occur in the process.

**Reactivity, and under what conditions**

May emit acid fumes once heated to decomposition.

**SECTION VI – TOXICOLOGICAL PROPERTIES**

<b>Skin contact</b>	Non-irritating to slightly irritating to skin
<b>Eye contact</b>	May result in moderate mechanical irritation by palpable powder or granular forms. Dust may cause stinging eyes.
<b>Inhalation of dust</b>	Large quantity of dust inhalation may cause irritation to lung.
<b>Ingestion</b>	Consult a physician if possible. Do not induce vomiting except directed by a physician.

**SECTION VII – PREVENTIVE MEASURES****Personal protective gear**

Where creation of dust is unavoidable, prolonged and/or repeated skin exposure are unavoidable, use conventional approved or equivalent respiratory protection equipment based on consideration of airborne and duration of exposure.

**Hand and skin**

Gloves are recommended. No special type of protection clothing is required. Regular long sleeved garments and long pants should be sufficed.

**Eye**

Use appropriate eye protection equipment to minimize contact with dust from dry product. Avoid wearing contact lenses in the presence of dust.

**Other**

To avoid accidentally ingesting this product, wash hands at breaks and before eating.

Use adequate ventilation to prevent dust from accumulating in workplace.

**SECTION VIII – FIRST AID MEASURES**

<b>Skin</b>	Remove contaminated clothing; wash exposed skin thoroughly with soap and water. Treat any irritation symptomatically. Laundry clothing before reusing.
<b>Eye</b>	Hold eyelids apart and rinse with running water. If irritation persists, seek for medical attention.
<b>Inhalation of dust</b>	Remove victim to a well-ventilated area. If irritation develops, obtain medical attention. If breathing becomes difficult, administer oxygen if available. Obtain medical attention immediately.
<b>Ingestion</b>	Consult a physician. Do not induce vomiting unless directed by a physician.
<b>Other</b>	Eye wash facilities should be available at workplace.

**SECTION IX – STORAGE, SHIPPING & DISPOSAL****Spillage and waste disposal**

Do not rinse spilled area with water until the following steps have been conducted:

Take measures to eliminate foot or vehicular traffic to avoid spraying material out of the spilled area. Scoop up spilled dry material and place in an appropriate container for disposal or re-use. Sweep up dust and remaining material. Use an appropriate vacuum (with filter to avoid dispersing respirable dust into air) to remove powder residue.

Once wet, remaining powder will cause surface to become extremely slippery

and pose a hazard similar to ice. Clean up personnel should take precautions when rinsing the surface with water.

Discharge into drains, sewers or waterways is not recommended due to its persistence and swollenness in aquatic media. It may cause clogging drains, filters and plumbing systems. Dispose this material in accordance with all applicable regulations.

#### **Handling procedures and equipment**

Avoid contact with moisture as the material forms a gel which is extremely slippery when absorbing water. Eliminate conditions that may pose slipperiness. Wear a dust mask or respirator when handling this material, or where possibility of inhalation exists. Wear suitable clothing to avoid prolonged or repeated skin contact. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands; remove contaminated clothing and protective equipment before eating.

#### **Packing and shipping information**

Use water-resistant methods.

#### **Storage requirement**

Store in a dry, cool, and ventilated area away from oxidizers. Ensure containers are properly closed and bags are properly sealed. All the stock should be properly labeled. Check regularly for spills.

Keep locked up and out of reach of children.

Keep away from sources of ignitions.

## **SECTION X – PREPARATION OF MSDS**

**Prepared and translated by** LMS, Canada

**Last update** April, 2006

Note: The information in this Material Safety Data Sheet associates only to the specific material designated herein and does not apply to uses in combination with any other materials or for any other processes. The information given is based on technical data provided by the manufacturer and those publications available when compiling/updating document and we believed to be reliable. It is subject to change or update without notice. Because conditions of applications vary and are beyond our control, it is users' responsibility to obtain safety data for combinations with other materials, or for applications in other processes. Always follow local safety regulations applicable on erection sites.