



## MATERIAL SAFETY DATA SHEET

Material Name: CL-420

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### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** CL-420 Cationic Polymer

**Manufacturer/Supplier's Name:** ADEGA CHEMICAL  
27917 Paseo El Concho  
San Juan Capistrano, CA 92675  
1-877-233-4211

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### SECTION 2 - HAZARDS IDENTIFICATION

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**Appearance and Odor**

**Form:** Viscous liquid

**Color:** Milky

**Odor:** Aliphatic

**Emergency Overview:**

Spills produce extremely slippery surfaces.

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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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**Identification:** Cationic water-soluble polymer in emulsion.

**Regulated Components:** None.

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### SECTION 4 – FIRST AID MEASURES

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**Inhalation:** No hazards which require special first aid measures.

**Skin Contact:** Wash off immediately with soap and plenty of water. In case of persistent skin irritation, consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion:** The product is not considered toxic based on studies on laboratory animals.



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## SECTION 5 – FIRE FIGHTING MEASURES

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**Suitable extinguishing media:** Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>).

**Precautions:** Spills produce extremely slippery surfaces.

**Special protective equipment for firefighters:** No special protective equipment required.

**Flash point:** Does not flash.

**Autoignition temperature:** Does not ignite.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** No special precautions required.

**Environmental precautions:** As with all chemical products, do not flush into surface water. Do not contaminate water.

**Methods for cleaning up:** Do not flush with water. Damp up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

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## SECTION 7 – HANDLING AND STORAGE

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**Handling:**

Safe handling advice: Avoid contact with skin and eyes. When preparing the working solution ensure there is adequate ventilation. When using, do not smoke.

**Storage:**

Keep in a dry cool place (0 - 30°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

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## SECTION 8 – EXPOSURE CONTROLS. I PERSONAL PROTECTION

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**Engineering measures:** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.



**Personal protective equipment:**

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection:** Rubber gloves.

**Eye protection:** Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection:** Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

**Hygiene measures**

Wash hands before breaks and at the end of the workday. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Form:</b>	Viscous liquid
<b>Color:</b>	Milky
<b>Odor:</b>	Aliphatic
<b>pH:</b>	3-7 @ 5 g/l
<b>Melting point / range:</b>	Not applicable
<b>Flash point:</b>	Does not flash
<b>Autoignition temperature:</b>	Does not ignite
<b>Approx. bulk density:</b>	1.04
<b>Water solubility:</b>	See Technical Bulletin

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**SECTION 10 – STABILITY AND REACTIVITY**

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**Stability:** Stable. Hazardous polymerization does not occur.

**Materials to avoid:** Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products:** Thermal decomposition may produce. Hydrogen chloride gas. Nitrogen oxides (NO<sub>x</sub>). Carbon oxides (CO<sub>x</sub>).

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

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**Acute toxicity**

**Skin:** The results of testing on rabbits showed this material to be non-toxic even at high



dose levels.

**Oral:** LD50/oral/rat > 5000mg/kg.

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

**Irritation:**

**Skin:** May cause skin irritation with susceptible persons.

**Eyes:** May cause eye irritation with susceptible persons.

**Sensitization:** The results of testing on guinea pigs showed this material to be non-sensitizing.

**Chronic toxicity:** A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects. Prolonged skin contact may defat the skin and produce dermatitis.

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## SECTION 12 – ECOLOGICAL INFORMATION

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**Aquatic toxicity**

**Toxicity to fish:** LC50/96 hours > 10 – 100 mg/l (OECD 203), (Based on the toxicity of the components using the Conventional Method).

**Toxicity to daphnia:** EC(I)50/Daphnia m./48 hours > 50 mg/L, (Based on the toxicity of the components using the Conventional Method).

**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**

**Hydrolysis:** At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

**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.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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**Disposal:** In accordance with local, state and federal regulations

**Container:** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.



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## SECTION 14 – TRANSPORT INFORMATION

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**DOT:** Not classified as dangerous in the meaning of DOT regulations.

**IMDG/IMO:** Not classified as dangerous in the meaning of IMO/IMDG regulations.

**ICAO/IATA:** Not classified as dangerous in the meaning of ICAO/IATA regulations.

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## SECTION 15 – REGULATORY INFORMATION

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### International Inventories:

**European Union (EINECS/ELINCS):** All components of this product are either listed on the inventory or are exempt from listing.

**USA (TSCA):** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL):** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (NDSL):** All components listed on inventory.

**Australia (AICS):** All components of this product are either listed on the inventory or are exempt from listing.

**China (IECSC):** All components of this product are either listed on the inventory or are exempt from listing.

**Japan (ENCS):** All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL):** All components of this product are either listed on the inventory or are exempt from listing.

**Philippines (PICCS):** All components of this product are either listed on the inventory or are exempt from listing.