Material Safety Data Sheet

Alcomer 507

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alcomer 507  Date Prepared: 7/2010
Chemical Family: Copolymer of sodium acrylate and acrylamide.

Supplier:

NOV FluidControl
4310 N. Sam Houston Parkway E
Houston, TX 77032
Office: (713) 482-0500
Fax: (713) 482-0695
Company website: www.nov.com

Emergency Telephone Number:
CHEMTREC: 1-800-424-9300 or International +1-703-527-3887

II. COMPOSITION/INFORMATION ON INGREDIENTS

NON-HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propenoic acid, sodium salt, polymer with 2-propenamide</td>
<td>25085-02-3</td>
<td>85-90</td>
</tr>
</tbody>
</table>

III. HAZARDS IDENTIFICATION

Signal Word: CAUTION!
Physical Form: Granular powder
Color: White
Odor: Little or no
Health: This product has no known adverse effect on human health.
Physical Hazards: Organic powders may be capable of generating static discharges and creating explosive mixtures in air. Handle with caution. Slip hazard when wet.

OSHA Hazardous Substance: This material is classified as not hazardous under OSHA regulations.
Primary Route(s) of Entry: Inhalation, Eyes.

IV. FIRST AID MEASURES

Eyes: Flush the eye(s) with lukewarm, gently flowing water for 5-10 minutes or until the chemical is removed. Get medical attention if irritation persists.
Skin: Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs. If clothing is contaminated, remove and launder before reuse.
Inhalation: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.
Ingestion: Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.
V. FIRE FIGHTING MEASURES

Fire Fighting Measures: Standard procedure for chemical fires.

Suitable Extinguishing Media: Carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media:
The product becomes slippery when wet. If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Fire Fighting Equipment:
Wear self-contained breathing apparatus and protective suit.

Unusual hazards: Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Spills can cause very slippery conditions on floors. Restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Hazardous Combustion Products: Burning may produce oxides of carbon or nitrogen.

VI. ACCIDENTAL RELEASE MEASURES

Cleanup Instructions: Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Wear suitable protective equipment. Should not be released into the environment.

Other Information: Spills are very slippery. Restrict pedestrian and vehicular traffic in area of spill until spill is thoroughly cleaned up.

VII. HANDLING AND STORAGE

Handling: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Storage: Keep containers tightly closed in a cool, well-ventilated place.

Explosion Hazards: Avoid creating dust. Organic powders may be capable of generating static discharges and creating explosive mixtures in air. Handle with caution.

For Industrial Use Only

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:
There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

Personal Protective Equipment

Eye/Face Protection: Wear safety glasses or goggles to protect against dust particles.
Skin Protection: Wear chemical resistant gloves and protective clothing.
Respiratory Protection: Use NIOSH approved respirator as needed to mitigate exposure.
Engineering Controls: Work in well ventilated areas. Do not breathe dust. Local exhaust recommended.
IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Granular powder
Color: White
Odor: Little or no
Freezing/Melting Point: Not determined
Solubility in water: Soluble, solubility limited by viscosity
Vapor Density: Not applicable
Vapor Pressure: Not applicable
Density: Not determined
Specific Gravity: 0.75
pH: Not determined
Percent Volatile: Not determined
VOC: Not determined
Partition Coefficient (Octanol/Water): Not determined
Decomposition Temperature: Not determined

Flammability Limits in Air:
Flash point: Not applicable

Test Method (for Flash Point): Not applicable

X. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Avoid static discharges and sources of ignition. Avoid wet and humid conditions. Avoid high temperatures.

Incompatibility: Strong oxidizing agents. (may degrade polymer)

Hazardous Decomposition Products:
No decomposition expected under normal storage conditions.

Possibility of Hazardous Reactions:
None expected.

XI. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50 > 2000 mg/kg (Rats) (based on similar product)
Acute Dermal Toxicity: Not determined
Acute Inhalation Toxicity: Not determined
Eye Irritation: May cause some irritation which should cease on removal of product.
Skin Irritation: May cause slight irritation, especially with repeated or prolonged exposure.
TOXICOLOGICAL INFORMATION CONTINUED

Skin Sensitization: Not determined

Carcinogenicity (IARC; NTP;OSHA; ACGIH):
None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Carcinogenicity Studies: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Mutagenicity: No data for product.

Reproductive Toxicity: No data for product.

Teratogenicity: No data for product.

Neurotoxicity: Not determined

Subacute Toxicity: Not determined

Subchronic Toxicity: Not determined

Chronic toxicity: Not determined

Absorption / Distribution /

Excretion / Metabolism:
Not determined

Additional Information: Not determined

XII. ECOLOGICAL INFORMATION

Toxicity to Fish: Not determined
Toxicity to Invertebrates: Not determined
Toxicity to Algae: Not determined
Toxicity to Sewage Bacteria: Not determined

Activated Sludge Respiration Inhibition Test:
Not determined

Biochemical Oxygen Demand (BOD):
Not determined

Chemical Oxygen Demand (COD): Not determined
Total Oxygen Demand (TOD): Not determined
Biodegradability: Not determined
Bioaccumulation: Not determined

Additional Environmental Data:
Product not considered toxic to aquatic organisms.
XIII. DISPOSAL CONSIDERATIONS

Waste Disposal:
Dispose in accordance with local, state, provincial and federal regulations.

XIV. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):
Not regulated for this mode of transport.

International Maritime Dangerous Goods (IMDG):
Not regulated for this mode of transport.

International Air Transportation Authority (IATA):
Not regulated for this mode of transport.

XV. REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Substance: This material is classified as not hazardous under OSHA regulations

Clean Air Act - Hazardous Air Pollutants (HAP):
This product contains the following Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

<table>
<thead>
<tr>
<th>Components</th>
<th>CAA Section 112 Statutory Hazardous Air Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propenamide</td>
<td>Listed</td>
</tr>
<tr>
<td>79-06-1</td>
<td></td>
</tr>
<tr>
<td>2-Propenoic acid</td>
<td>Listed.</td>
</tr>
<tr>
<td>79-10-7</td>
<td></td>
</tr>
</tbody>
</table>

Clean Air Act - Volatile Organic Compounds (VOC):
This product contains the following SOCMI Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).

<table>
<thead>
<tr>
<th>Components</th>
<th>CAA Section 111 Volatile Organic Compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>Listed.</td>
</tr>
<tr>
<td>57-13-6</td>
<td></td>
</tr>
<tr>
<td>2-propenamide</td>
<td>Listed.</td>
</tr>
<tr>
<td>79-06-1</td>
<td></td>
</tr>
<tr>
<td>2-Propenoic acid</td>
<td>Listed.</td>
</tr>
<tr>
<td>79-10-7</td>
<td></td>
</tr>
</tbody>
</table>

Clean Air Act - Ozone Depleting Substances (ODS):
This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).
REGULATORY INFORMATION CONTINUED


SARA Section 302 Extremely Hazardous Substances (EHS): This product contains the following component(s) regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

<table>
<thead>
<tr>
<th>Components</th>
<th>Section 302 Extremely Hazardous Substances (EHS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propenamide</td>
<td>Listed.</td>
</tr>
<tr>
<td>79-06-1 (0-0.1 %)</td>
<td></td>
</tr>
</tbody>
</table>

SARA Section 304 CERCLA Hazardous Substances:
This product contains the following component(s) regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

<table>
<thead>
<tr>
<th>Components</th>
<th>Section 304 CERCLA Hazardous Substances</th>
<th>CERCLA Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propenamide</td>
<td>Listed.</td>
<td>5000 LBS</td>
</tr>
<tr>
<td>79-06-1 (0-0.1 %)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propenoic acid</td>
<td>Listed.</td>
<td>5000 LBS</td>
</tr>
<tr>
<td>79-10-7 (0-0.1 %)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA Section 311/312 Hazard Communication Standard (HCS):
This product is not regulated under Section 311/312 HCS (40 CFR 370).

SARA Section 313 Toxic Chemical List (TCL):
This product does not contain any component(s) listed on the Section 313 Toxic Chemical List.

TSCA Section 8(b) Inventory Status:
All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

TSCA Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR).

TSCA Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

TSCA Section 12(b) Export Notification: This product does not contain any component(s) that are subject to a Section 12(b) Export Notification

State Regulations

California Proposition 65: This product contains the following component(s) currently on the California list of Known Carcinogens and Reproductive Toxins.

<table>
<thead>
<tr>
<th>Components</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propenamide</td>
<td>Carcinogenic.</td>
</tr>
<tr>
<td>79-06-1</td>
<td></td>
</tr>
</tbody>
</table>
Pennsylvania Right-To-Know: This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Pennsylvania Right-to-Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propenoic acid, sodium salt, polymer with 2-propenamide</td>
<td>25085-02-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2-Propenoic</td>
<td>79-10-7</td>
<td>Listed. Environmental Hazard</td>
</tr>
<tr>
<td>2-Propenamide</td>
<td>79-06-1</td>
<td>Listed. Environmental Hazard</td>
</tr>
</tbody>
</table>

International Regulations

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

XVI. HMIS AND NFPA RATINGS:

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>0</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
</tr>
<tr>
<td>SPECIFIC HAZARD</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>PERSONAL</td>
</tr>
<tr>
<td></td>
<td>PROTECTION</td>
</tr>
</tbody>
</table>

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Fax: (713) 482-0695
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