

AP SoilGel 200

Three-component, water-swelling acrylate hydrogel.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AP SoilGel 200

MANUFACTURER: Alchemy-Spetec

ADDRESS: 4508 Bibb Blvd, Tucker, GA 30084

PHONE: (404) 618-0438

FAX: (678) 805-4783

WEBSITE: www.alchemy-spetec.com

FOR EMERGENCY: Call CHEMTREC Day or Night

1-800-424-9300 / +1 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

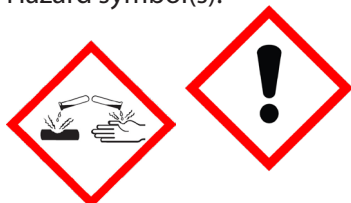
Classification according to paragraph (d) of 29 CFR 1910.1200:

Skin Corr. 1B;H314, Skin Sens. 1B;H317

Label elements

Labelling according to paragraph (f) of 29 CFR 1910.1200:

Hazard symbol(s):



Signal word:	Danger
Hazard statement(s):	H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction
Precautionary statement(s):	P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

Other hazards

Spills produce extremely slippery surfaces.
For explanation of abbreviations see Section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**Substances**

Not applicable, this product is a mixture.

Mixtures

Hazardous components

2-Propenoic acid, monoester with 1,2-Propanediol Concentration/ -range: CAS Number: Classification according to paragraph (d) of 29 CFR 1910.1200:	<10% 25584-83-2 Acute TOX. 3;H301, Acute TOX. 3;H311, Acute TOX. 3;H331, Skin Corr. 1B;H314, Skin Sens. 1B;H317
For explanation of abbreviations see section 16	

SECTION 4: FIRST AID MEASURES**Description of first aid measures***Inhalation:*

Move to fresh air. Call a physician if symptoms occur.

Skin contact:

Wash off immediately with soap and plenty of water While removing all contaminated clothes and shoes. Get medical attention.

Eye contact:

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin and eye burns. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information:

None.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

None.

Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Advice for fire-fighters

Protective measures:

Wear full protective clothing and self-contained breathing apparatus.

Other information:

None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Avoid contact with the skin and the eyes. Avoid breathing vapor or mist.

Protective equipment:

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Keep people away from and upwind of spill/leak.

Environmental precautions

Do not allow contact with soil, surface or ground water.

Methods and material for containment and cleaning up

Prevent further leakage or spillage. Do not flush with water.

Small spills:

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large spills:

If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Soak up with inert absorbent material. Dam up.

Residues:

After cleaning, flush away traces with water.

Reference to other sections

Section 7 - Handling and Storage, Section 8 - Exposure Controls/ Personal Protection, Section 13 - Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Incompatible with oxidizing agents. Incompatible with strong acids and bases.

Specific end use(s)

Monomer for polymerisation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

2-Propenoic acid, monoester with 1,2-Propanediol

OSHA: 3 lug/1113 (8 hours)

ACG/H;0.5 ppm (8 hours)

Exposure controls

Appropriate engineering controls:

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment:

a) Eye/face protection:

Safety glasses with side-shields.

b) Skin protection:

Full protective suit.

i) Hand protection:

PVC or other plastic material gloves.

c) Respiratory protection:

In case of vapor formation use respirator with organic filter.

d) Additional advice:

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

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment. Do not allow contact with soil, surface or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance:	Liquid, Blue.
b) Odour:	Slight.
c) Odour Threshold:	Not applicable.
d) pH:	5 - 8
e) Melting point/freezing point:	< 0°C
f) Initial boiling point and boiling range:	> 100°C
g) Flash point:	Does not flash.
h) Evaporation rate:	No data available.
i) Flammability {so/id, gas}:	Not applicable.
j) Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.
k) Vapour pressure:	2.3 kPa @ 20°C
l) Vapour density:	Equivalent to water (~08 g/l).
m) Relative density:	1.1 - 1.3
n) Solubility(ies):	Completely miscible.
o) Partition coefficient:	< 1
p) Autoignition temperature:	No data available.
q) Decomposition temperature:	No data available.
r) Viscosity:	See Technical Bulletin.
s) Explosive properties:	Not expected to be explosive based on the chemical structure.
t) Oxidizing properties:	Not expected to be oxidising based on the chemical structure.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions. Polymerization is initiated by: free radicals, peroxides.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Conditions to avoid

Avoid temperatures above 50°C.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx), hydrogen cyanide (hydrocyanic acid).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity:	LD50/oraVrat > 2000 mg/kg (Estimated)
Acute dermal toxicity:	LD50/dermal/rat > 2000 mg/kg (Estimated)
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Corrosive to skin.
Serious eye damage/eye irritation:	Corrosive to eyes.
Respiratory/skin sensitisation:	Sensitizing to skin.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive toxicity:	Not toxic for reproduction.
STOT - single exposure:	No known effects.
STOT-repeated exposure:	No known effect.
Aspiration hazard:	No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

2-Propenoic acid, monoester with 1,2-Propanediol

Acute oral toxicity:	LD50/oral/rat = 1001 mg/kg (OECD 401)
Acute dermal toxicity:	LD50/dermal/rat > 1000 mg/kg (OECD 402)
Acute inhalation toxicity:	LC50/inhalation/8 hours/rat > 0.38 mg/L (OECD 403)
Skin corrosion/irritation:	Causes burns.
Serious eye damage/eye irritation:	Causes burns.
Respiratory/skin sensitisation:	Sensitizing to skin. (Based on results obtained from tests on analogous products)
Mutagenicity:	Negative in the Ames Test (OECD 471) Positive in the In Vitro Mammalian Chromosome Aberration Test (OECD 473). Negative in the In vitro Mammalian Cell Gene Mutation Test (OECD 476). Not mutagenic in micronucleus test on mice. (OECD 474)
Carcinogenicity:	By analogy with similar substances, this substance is not expected to be carcinogenic.
Reproductive toxicity:	Two-Generation Reproduction Toxicity (OECD 416) NOAEL/rat = 0.092 mg/L (Based on results obtained from tests on analogous products) NOAEL/Maternal toxicity/rat = 0.0054 mg/L; NOAEL/Developmental toxicity/rat = 0.054 mg/L
STOT - single exposure:	No known effects.
STOT-repeated exposure:	NOAEL/oral/rau 100 days \geq 196 mg/kg/day (Based on results obtained from tests on analogous products)
Aspiration hazard:	No known effects.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LC50/Fish/96 hours = 10 - 100 mg/L (Estimated)
Acute toxicity to invertebrates:	EC50/Daphnia/48 hours > 100 mg/L (Estimated)
Acute toxicity to algae:	IC50/Algae/72 hours = 1 - 10 mg/L (Estimated)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

Relevant information on the hazardous components:2-Propenoic acid, monoester with 1,2-PrOpanediol

Acute toxicity to fish:	LC50/Pimephales promelas/96 hours = 3.61 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours = 24 mg/L- (OECD 202)
Acute toxicity to algae:	IC50/Selenastrum capricomutum/72 hours = 6.98 mg/L (OECD 201)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days = 0.48 mg/L (OECD 211) (Based on results obtained from tests on analogous products)
Toxicity to microorganisms:	EC50/activated sludge/0.5 hours > 1000 mg/L (OECD 209)
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

Persistence and degradabilityInformation on the product as supplied:

Degradation:	Readily biodegradable. > 90% / 14 days (OECD 301 A)
Hydrolysis:	Half-life: > 490 d @ 25°C, pH 3'; > 230 d @ 25°C, pH 7'; 0.06 d @ 25°C, pH 11
Photolysis:	Half-life: 0.925 days

Bioaccumulative potentialInformation on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow):	<1
Bioconcentration factor (BCF):	No data available.

Relevant information on the hazardous components:2-Propenoic acid, monoester with 1,2-PrOpanediol

Partition co-efficient (Log Pow):	0.2 @ 25°C (OECD 107)
Bioconcentration factor (BCF):	No data available.

Information on the product as supplied:

Exposure to soil is not to be expected.

Relevant information on the hazardous components:

2-Propenoic acid, monoester with 1,2-Propanediol

Koo-1.498

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose in accordance with local and national regulations.

Recycling:

If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport (DOT)

UN number	3265
UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Contains: Hydroxypropyl acrylate)
Transport hazard class(es)	8
Packing group	II
Environmental hazards	None.
Special precautions for user	May be corrosive to metals.

Sea transport (IMDG)

UN number	3265
UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Contains: Hydroxypropyl acrylate)
Transport hazard class(es)	8
Packing group	II
Environmental hazards	None.
Marine pollutant	No
Special precautions for user	May be corrosive to metals.
EmS	F-A, S-B

Air transport (IATA)

UN number	3265
UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Contains: Hydroxypropyl acrylate)
Transport hazard class(es)	8
Packing group	II
Environmental hazards	None.
Special precautions for user	May be corrosive to metals.

SECTION 15: REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SARA (Section 31 1/312) hazard class:

Acute.

SARA Title III Sections:

Section 302 (TPQ) - Reportable Quantity:

Not concerned.

Section 304 - Reportable Quantity:

Not concerned.

Section 313 (De minimis concentration):
Not concerned.

Clean Water Act

Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity:
Not concerned.

Clean Air Act

Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity:
Not concerned.

CERCLA

Hazardous Substances List {40 CFR 302.4) - Reportable Quantity:
Not concerned.

RCRA status:

Hazardous waste, if discarded

California Proposition 65 Information:

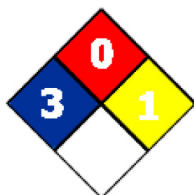
Not concerned.

SECTION 16: OTHER INFORMATION

NFPA and HMIS Ratings:

NFPA:

Health:	3
Flammability:	0
Instability:	1



HMIS:

Health:	3
Flammability:	0
Physical Hazard:	0

PPE Code: D

