

SAFETY DATA SHEET



AQUA-PREP® PROTEIN SOLUTION

SECTION 1. IDENTIFICATION

Product name : AQUA-PREP® PROTEIN SOLUTION

Relevant identified uses of the substance or mixture: Pond augmentation

Manufacturer or supplier's details

Company : SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032
: Phone 317-580-8282/Toll Free 1-800-419-7779
Fax: 317-580-8290
Monday-Friday, 8am-5pm EST
: www.sepro.com
Emergency telephone number : **INFOTRAC 24-hour service 1-800-535-5053**

Recommended use of the chemical and restrictions on use

Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards : None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name / Synonyms | CAS-No. | Concentration (% w/w) |
|---|------------|-----------------------|
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 3 - 5 |
| Propane-1,2-diol | 57-55-6 | 1 - 3 |
| Alcohols, C10-16, ethoxylated, sulfates, sodium salts | 68585-34-2 | 1 - 2 |

SECTION 4. FIRST AID MEASURES

If inhaled : IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

Move to fresh air.
Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
If breathing is irregular or stopped, administer artificial respiration.
Keep respiratory tract clear.

In case of skin contact : IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.

After contact with skin, wash immediately with plenty of soap and water.
If on clothes, remove clothes.
In the case of skin irritation or allergic reactions see a physician.

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.

If swallowed : IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.



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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Carbon dioxide (CO₂)
Foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : May be ignited by open flame.
Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.
Use personal protective equipment.
Use respirator when performing operations involving potential exposure to vapour of the product.
Prevent further leakage or spillage if safe to do so.
Use personal protective equipment as required.
Evacuate personnel to safe areas.
Remove all sources of ignition.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).



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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.
This product is designed to facilitate the reduction of organic sediment in surface waters.
Maximum Usage Level (MUL) for Potable Water is 1.5mg/L.

Conditions for safe storage : Keep container closed when not in use.
Store in cool place.

Keep container tightly closed.
Keep in a well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.
To maintain product quality, do not store in heat or direct sunlight.

Materials to avoid : Refer to Section 10, "Incompatible Materials."

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--|---------|-------------------------------|--|-------|
| We are not aware of any national exposure limit. | | | | |
| Propane-1,2-diol | 57-55-6 | TWA (Aerosols) | 10 mg/m ³ | WEEL |

Engineering measures : No exposure limits exist for the constituents of this product. Additional ventilation beyond that of general exhaust is not normally required.

Personal protective equipment

Respiratory protection : Respiratory protection not normally needed.

In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter.

Respirator with a vapour filter (EN 141)

Hand protection



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| | | |
|--------------------------|---|--|
| Material | : | Nitrile rubber |
| Remarks | : | Impervious gloves Wear protective gloves. Break through time : > 480 min |
| Eye protection | : | Safety glasses with side-shields Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | : | Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Protective measures | : | Emergency eyewash should be provided in the immediate work area. |
| Hygiene measures | : | Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|------------------------------|---|-------------------------------|
| Appearance | : | liquid |
| Colour | : | no data available |
| Odour | : | Strong, slightly fermented |
| Odour Threshold | : | no data available |
| pH | : | 4.0 - 4.5 |
| Melting point/freezing point | : | no data available |
| Boiling point/boiling range | : | no data available |
| Flash point | : | > 199.9 °F / 93.3 °C |
| Evaporation rate | : | no data available |
| Flammability (liquids) | : | no data available |
| Self-ignition | : | no data available |
| Upper explosion limit | : | no data available |
| Lower explosion limit | : | no data available |
| Vapour pressure | : | no data available |
| Relative vapour density | : | no data available |
| Relative density | : | 1.009 - 1.011 (68 °F / 20 °C) |



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| | | |
|--|---|-------------------|
| Density | : | Not applicable |
| Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | no data available |
| Decomposition temperature | : | no data available |
| Viscosity, dynamic | : | no data available |
| Viscosity, kinematic | : | no data available |
| Explosive properties | : | no data available |
| Oxidizing properties | : | no data available |
| Minimum ignition energy | : | no data available |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|--|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : | Stable under normal conditions. Product will not undergo hazardous polymerization. Stable under recommended storage conditions. No hazards to be specially mentioned. |
| Conditions to avoid | : | Heat, flames and sparks. Heat |
| Incompatible materials | : | Strong oxidizing agents Strong acids and strong bases Strong acids and strong bases Oxidizing agents |
| Hazardous decomposition products | : | No hazardous decomposition products are known. No decomposition if used as directed. |

SECTION 11. TOXICOLOGICAL INFORMATION

| | | |
|--|---|-------------------|
| Information on likely routes of exposure | : | Ingestion Eyes |
|--|---|-------------------|



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Acute toxicity

Acute oral toxicity : LD50 (Rat): Believed to be > 5,000 mg/kg
Acute inhalation toxicity : Remarks: no data available
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Remarks: Not expected to cause irritation.

Serious eye damage/eye irritation

Remarks: Causes serious eye irritation.

Respiratory or skin sensitization
skin or respiratory sensitizer.

Remarks: This material is not known or reported to be a

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

no data available

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

Repeated dose toxicity

Remarks: Not known or reported to cause subchronic or chronic toxicity.

Aspiration toxicity

No aspiration toxicity classification

Further information

Remarks: no data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : Remarks: no data available

Persistence and degradability no data available

Bioaccumulative potential

Remarks: no data available

Components:

Propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: -0.92



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log Pow: -1.07 (20.5 °C) pH: 6.2 - 6.4
Method: Tested according to Directive 92/69/EEC.

Mobility in soil

Distribution among environmental compartments : Remarks: no data available

Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There is no data available for this product.
This material is not expected to be harmful to aquatic life.

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

Dispose of contents/container in accordance with local regulation.

Contact waste disposal services.

Do not dispose of waste into sewer.

Contaminated packaging : Dispose of as unused product.
Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

| | | |
|---|---|---------------------|
| DOT | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| TDG | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| IATA | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| IMDG | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| ADR | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| RID | : | Not dangerous goods |
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Transport hazard class | : | Not applicable |
| Packing group | : | Not applicable |
| Special precautions for user | : | none |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : | Not applicable |

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity



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| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------|---------|--------------------|-----------------------------|
| Ethylene oxide | 75-21-8 | 10 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------|---------|--------------------|-----------------------------|
| Ethylene oxide | 75-21-8 | 10 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

| Components | CAS-No. | Concentration |
|----------------|----------|------------------|
| Formaldehyde | 50-00-0 | 0.0001 - 0.001 % |
| Ethylene oxide | 75-21-8 | 0 - 0.0001 % |
| 1,4-Dioxane | 123-91-1 | 0 - 0.0001 % |

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

| Components | CAS-No. | Concentration |
|----------------|---------|------------------|
| Formaldehyde | 50-00-0 | 0.0001 - 0.001 % |
| Ethylene oxide | 75-21-8 | 0 - 0.0001 % |

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

| Components | CAS-No. | Concentration |
|-----------------------|----------|------------------|
| Propane-1,2-diol | 57-55-6 | 1 - 3 % |
| Sodium benzoate | 532-32-1 | 0.1 - 1 % |
| Formaldehyde | 50-00-0 | 0.0001 - 0.001 % |
| Hexa-2,4-dienoic acid | 110-44-1 | 0.0001 - 0.001 % |
| Ethylene oxide | 75-21-8 | 0 - 0.0001 % |
| 1,4-Dioxane | 123-91-1 | 0 - 0.0001 % |

This product contains the following VOC exemptions listed under the U.S. Clean Air Act Section 450.

| Components | CAS-No. | Concentration |
|----------------------|------------|----------------|
| Polydimethylsiloxane | 63148-62-9 | 0.001 - 0.01 % |



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Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| Components | CAS-No. | Component RQ (lbs) |
|------------------|-----------|--------------------|
| Formaldehyde | 50-00-0 | 100 |
| Sodium hydroxide | 1310-73-2 | 1000 |

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

| Components | CAS-No. | Concentration |
|------------------|-----------|------------------|
| Formaldehyde | 50-00-0 | 0.0001 - 0.001 % |
| Sodium hydroxide | 1310-73-2 | 0 - 0.0001 % |

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

| Components | CAS-No. |
|--------------|---------|
| Formaldehyde | 50-00-0 |

Pennsylvania Right To Know

| Components | CAS-No. |
|------------------------------|------------|
| Water | 7732-18-5 |
| Yeast extract | 8013-01-2 |
| Alcohols, C9-11, ethoxylated | 68439-46-3 |

New Jersey Right To Know

| Components | CAS-No. |
|---|------------|
| Water | 7732-18-5 |
| Yeast extract | 8013-01-2 |
| Alcohols, C9-11, ethoxylated | 68439-46-3 |
| Propane-1,2-diol | 57-55-6 |
| Alcohols, C10-16, ethoxylated, sulfates, sodium salts | 68585-34-2 |

California Prop. 65

WARNING Cancer - www.P65Warnings.ca.gov.

| Components | CAS-No. |
|----------------|----------|
| Formaldehyde | 50-00-0 |
| Ethylene oxide | 75-21-8 |
| 1,4-Dioxane | 123-91-1 |

WARNING Reproductive Harm - www.P65Warnings.ca.gov.

| Components | CAS-No. |
|----------------|---------|
| Ethylene oxide | 75-21-8 |

Canadian lists

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.



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The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

WEEL : US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

First formulated version in SAP.

Arch is a wholly-owned subsidiary of Lonza and continues to operate as Arch Chemicals, Inc.

Revision Date : 2020.06.03

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and



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may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : 2022/02/01

US / EN