Material Safety Data Sheet
3-Aminopropyltriethoxysilane, 99%

ACC# 85861

Section 1 - Chemical Product and Company Identification

MSDS Name: 3-Aminopropyltriethoxysilane, 99%
Catalog Numbers: AC151080000, AC151080050, AC151081000, AC151085000
Synonyms: 3-Triethoxysilylpropylamine; AMEO.
Company Identification:
- Acros Organics N.V.
- One Reagent Lane
- Fair Lawn, NJ 07410
For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>919-30-2</td>
<td>3-Aminopropyltriethoxysilane</td>
<td>99</td>
<td>213-048-4</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear liquid.

Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Contact with moisture liberates ethanol. May be harmful if swallowed.
Target Organs: Central nervous system, liver, eyes, skin, mucous membranes.

Potential Health Effects
Eye: Causes eye burns.
Skin: Causes skin burns.
Ingestion: Causes gastrointestinal tract burns. May be harmful if swallowed.
Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.
Chronic: Effects may be delayed. Ethanol is mainly metabolized in the liver, which is also one of the primary target organs. While ethanol is well known to cause cirrhosis of the liver in alcoholics, liver cirrhosis has also been produced in rabbits exposed by inhalation.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).
Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while
removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Treat symptomatically and supportively.

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**Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with water liberates highly flammable gases.

**Extinguishing Media:** Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide. Do NOT get water inside containers.

**Flash Point:** 96 deg C (204.80 deg F)

**Autoignition Temperature:** 300 deg C (572.00 deg F)

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 1; Instability: ; Special Hazard: -W-

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**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation. Do not get water inside containers.

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**Section 7 - Handling and Storage**

**Handling:** Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Do not allow contact with water. Discard contaminated shoes. Keep from contact with moist air and steam.

**Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Store protected from moisture. Store under nitrogen.

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**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep
airborne concentrations below the permissible exposure limits.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** 3-Aminopropyltriethoxysilane: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Wear chemical goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** clear  
**Odor:** amine-like  
**pH:** Not available.  
**Vapor Pressure:** < 1 hPa @ 20 C  
**Vapor Density:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** 217 deg C @ 760 mm Hg  
**Freezing/Melting Point:** -70 deg C  
**Decomposition Temperature:** > 217 deg C  
**Solubility:** Reacts.  
**Specific Gravity/Density:** 0.9420 g/ml  
**Molecular Formula:** C9H23NO3Si  
**Molecular Weight:** 221.37

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Material generates ethanol on contact with water.  
**Conditions to Avoid:** Ignition sources, moisture.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong acids, water.  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, ethanol.  
**Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information
RTECS#:  
CAS# 919-30-2: TX2100000  
LD50/LC50:  
CAS# 919-30-2:  
Draize test, rabbit, eye: 100 mg Mild;  
Draize test, rabbit, eye: 750 ug/24H Severe;  
Draize test, rabbit, skin: 5 mg/24H Severe;  
Oral, mouse: LD50 = 4 gm/kg;  
Oral, rat: LD50 = 1780 mg/kg;  
Skin, rabbit: LD50 = 4 mL/kg;  
Carcinogenicity:  
CAS# 919-30-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: No information available.  
Neurotoxicity: No information available.  
Mutagenicity: No information available.  
Other Studies: The hazards associated with ethanol may be seen in this product.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>Canada TDG</th>
</tr>
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<tbody>
<tr>
<td>Shipping Name:</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S.</td>
<td>Amines, Liquid, Corrosive, N.O.S. (3- AMINOPROPYLTRIETHOXYSILANE)</td>
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<tr>
<td>Hazard Class:</td>
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<td>8</td>
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<tr>
<td>UN Number:</td>
<td>UN2735</td>
<td>UN2735</td>
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<tr>
<td>Packing Group:</td>
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<td>III</td>
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</tbody>
</table>

Section 15 - Regulatory Information

US FEDERAL

TSCA  
CAS# 919-30-2 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.

Section 313
No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 919-30-2 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:
C

Risk Phrases:
R 22 Harmful if swallowed.
R 34 Causes burns.

Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 919-30-2: 1

Canada - DSL/NDSL
CAS# 919-30-2 is listed on Canada's DSL List.

Canada - WHMIS
This product has a WHMIS classification of E.

Canadian Ingredient Disclosure List

https://fscimage.fishersci.com/msds/85861.htm
Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997  
**Revision #6 Date:** 7/09/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.