Material Safety Data Sheet
Cyclopropylamine, 80% solution in water, special grade for Novartis

ACC# 02600

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Cyclopropylamine, 80% solution in water, special grade for Novartis  
**Catalog Numbers:** AC263700000  
**Synonyms:**  
**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>765-30-0</td>
<td>Cyclopropylamine</td>
<td>80%</td>
<td>212-142-2</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: Clear liquid. Flash Point: -25 deg C.  
Hygroscopic (absorbs moisture from the air).  
**Target Organs:** Respiratory system, eyes, skin.

**Potential Health Effects**

**Eye:** Causes eye burns. Lachrymator (substance which increases the flow of tears).  
**Skin:** Causes skin burns.  
**Ingestion:** Causes gastrointestinal tract burns.  
**Inhalation:** Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.  
**Chronic:** Not available.
**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.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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

**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. Vapors can travel to a source of ignition and flash back. Flammable liquid and vapor.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Flash Point:** -25 deg C ( -13.00 deg F)

**Autoignition Temperature:** 275 deg C ( 527.00 deg F)

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

**Upper:** Not available.

**NFPA Rating:** Not published.

**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. Remove all sources of ignition. Use a spark-proof tool.

**Section 7 - Handling and Storage**

**Handling:** Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take
precautionary measures against static discharges. Use only in a chemical fume hood. This product may be under pressure; cool before opening.

**Storage:** Keep away from heat, sparks, and flame. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

### 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 ventilation to keep airborne concentrations low.

**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>Cyclopropylamine</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** Cyclopropylamine: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Not available.

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

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

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** colorless - Clear

**Odor:** ammonia-like

**pH:** Not available.

**Vapor Pressure:** 450 mbar @ 20 deg C

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 49 - 50 deg C @ 760

**Freezing/Melting Point:** -50 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Soluble.

**Specific Gravity/Density:** .8240g/cm3

**Molecular Formula:** C3H5NH2

**Molecular Weight:** 57.09
Section 10 - Stability and Reactivity

**Chemical Stability:** Not available.
**Conditions to Avoid:** Incompatible materials, ignition sources, exposure to moist air or water.
**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, acid chlorides, carbon dioxide, acid anhydrides.
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.
**Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

**RTECS#:**
**CAS# 765-30-0:** GZ0685500
**LD50/LC50:**
**CAS# 765-30-0:**
  - Oral, rat: LD50 = 445 mg/kg;
**Carcinogenicity:**
  - CAS# 765-30-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
**Epidemiology:** No data available.
**Teratogenicity:** No data available.
**Reproductive Effects:** No data available.
**Mutagenicity:** No data available.
**Neurotoxicity:** No data available.
**Other Studies:**

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
Section 14 - Transport Information

<table>
<thead>
<tr>
<th>US DOT</th>
<th>Canada TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shipping Name:</strong></td>
<td>Please contact Fisher Scientific for shipping information</td>
</tr>
<tr>
<td><strong>Hazard Class:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>UN Number:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Packing Group:</strong></td>
<td></td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**
CAS# 765-30-0 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# 765-30-0 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:
F C
Risk Phrases:
R 11 Highly flammable.
R 34 Causes burns.

Safety Phrases:
S 16 Keep away from sources of ignition - No smoking.
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# 765-30-0: 1

Canada - DSL/NDSL
CAS# 765-30-0 is listed on Canada's NDSL List.

Canada - WHMIS
WHMIS: Not available.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 4/07/2000
Revision #1 Date: 3/18/2003

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.
<table>
<thead>
<tr>
<th><strong>SALES SPECIFICATION</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPEARANCE</strong></td>
<td>clear liquid</td>
</tr>
<tr>
<td><strong>ASSAY</strong></td>
<td>99.0% min</td>
</tr>
<tr>
<td><strong>MOISTURE</strong></td>
<td>0.5% max</td>
</tr>
<tr>
<td><strong>COLOR, AHPA</strong></td>
<td>50 max</td>
</tr>
<tr>
<td><strong>TRANSPORTATION</strong></td>
<td></td>
</tr>
<tr>
<td><strong>PACKING</strong></td>
<td>160kgs in drum</td>
</tr>
<tr>
<td><strong>HAZARD CLASS</strong></td>
<td>3 (Packing Group: II)</td>
</tr>
<tr>
<td><strong>UN NO.</strong></td>
<td>2733, 2924</td>
</tr>
<tr>
<td><strong>OTHER INFORMATION</strong></td>
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</tbody>
</table>