Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Aminobenzoic acid, 99%
Catalog Numbers: 14621-0000, 14621-0010, 14621-2500, 38030-0000
Synonyms: PABA

Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name: 4-Aminobenzoic acid 99%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>150-13-0</td>
<td>4-Aminobenzoic acid 99%</td>
<td>205-753-0</td>
</tr>
</tbody>
</table>

Hazard Symbols: XI

Risk Phrases: 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed
through the skin.
May cause irritation of the digestive tract. May cause allergic reaction
characterized by a rash. May cause nausea and vomiting. May cause acute
hepatitis. May be harmful if swallowed. Overexposure may cause
methemoglobinemia.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Repeated exposure may cause sensitization dermatitis.

**Section 4 - First Aid Measures**

**Eyes:**
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting
the upper and lower eyelids. Get medical aid.

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

**Ingestion:**
Get medical aid. Wash mouth out with water.

**Inhalation:**
Remove from exposure and move to fresh air immediately. If not breathing,
give artificial respiration. If breathing is difficult, give oxygen. Get medical
aid.

**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.
Dusts at sufficient concentrations can form explosive mixtures with air.

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

**Section 6 - Accidental Release Measures**

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Vacuum or sweep up material and place into a suitable disposal
container.

**Section 7 - Handling and Storage**

**Handling:**
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Store
and handle protected from air.

**Storage:**
Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed
container. Keep under a nitrogen blanket.

**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**
Personal Protective Equipment
Eyes: Wear chemical splash goggles.
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: Crystalline powder
   Color: light yellow - white
   Odor: Not available
   pH: 3.5 (0.5% aq. solution)
Vapor Pressure: Not available
   Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 186 - 189 deg C
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: 4.7 g/l (20°C)
Specific Gravity/Density:
   Molecular Formula: C7H7NO2
Molecular Weight: 137.14

Section 10 - Stability and Reactivity


Conditions to Avoid: Incompatible materials, light, exposure to air.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 150-13-0: DG1400000

RTECS: 

CAS# 150-13-0: Oral, mouse: LD50 = 2850 mg/kg; Oral, rabbit: LD50 = 1830 mg/kg; Oral, rat: LD50 = >6 gm/kg;

LD50/LC50:

Carcinogenicity: 4-Aminobenzoic acid - IARC: Group 3 (not classifiable)

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Not available

Other: Readily biodegradable. Log Pow = 0.68

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA IMO RID/ADR Not available Not available Not available

Shipping Name: Hazard Class: UN Number: Packing Group: 

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI
Risk Phrases:
   R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
   S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   S 37/39 Wear suitable gloves and eye/face protection.
WGK (Water Danger/Protection)
   CAS# 150-13-0: 1

Canada
   CAS# 150-13-0 is listed on Canada's DSL List

US Federal
   TSCA
   CAS# 150-13-0 is listed on the TSCA Inventory.

Section 16 - Other Information
   MSDS Creation Date: 7/16/1996
   Revision #1 Date 5/13/2004
   Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.

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