# Material Safety Data Sheet 4-Aminophenol, 99%

ACC# 04968

# Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Aminophenol, 99% Catalog Numbers: AC366640000

Synonyms: 4-Hydroxyaniline; 4-Amino-1-hydroxybenzene

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

CAS#	Chemical Name	Percent	EINECS/ELINCS
123-30-8	4-Aminophenol	99%	204-616-2

## Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: white to light beige powder.

Light sensitive. Air sensitive.

Target Organs: Blood, kidneys, central nervous system, liver, brain.

### **Potential Health Effects**

Eye: May cause eye irritation. Causes redness and pain.

**Skin:** May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be absorbed through the skin. Causes symptoms similar to those of inhalation. Absorption into the body may cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Causes redness and pain. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause effects similar to those for inhalation exposure. May cause unconsciousness.

**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation. May cause asthma and shortness of breath. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown blood. Inhalation of high concentrations may cause coughing and shortness of breath. May cause respiratory sensitization.

Chronic: Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage. Possible risk of irreversible effects.

# 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 189 deg C ( 372.20 deg F)

Autoignition Temperature: > 250 deg C (> 482.00 deg F)

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: ; Flammability: ; Instability:

# 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:** Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust, vapor, mist, or gas. Take precautionary measures against static discharges.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store protected from light and air.

# Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
4-Aminophenol	none listed	none listed	none listed

OSHA Vacated PELs: 4-Aminophenol: 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: Powder

Appearance: white to light beige

**Odor:** phenol-like **pH:** Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: Not available.

Boiling Point: 284 deg C @760mmHg Freezing/Melting Point:187 - 191 deg C Decomposition Temperature:Not available.

**Solubility:** 1.5 g/100 ml (20°C)

Specific Gravity/Density:Not available.

Molecular Formula:C6H7NO Molecular Weight:109.13

# Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. May discolor on exposure to light.

Conditions to Avoid: Incompatible materials, light, ignition sources, dust generation, moisture, exposure to air.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, strong bases, acid chlorides, acid anhydrides, alkalis,

chlor of ormates.

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

Hazardous Polymerization: Has not been reported

# Section 11 - Toxicological Information

RTECS#:

CAS# 123-30-8: SJ5075000

**LD50/LC50:** CAS# 123-30-8:

Draize test, rabbit, eye: 100 mg Mild; Draize test, rabbit, skin: 12500 ug/24H Mild; Inhalation, rat: LC50 = >5 mg/m3/1H;

Oral, rabbit: LD50 = 10 gm/kg; Oral, rat: LD50 = 375 mg/kg; Skin, rabbit: LD50 = >10 gm/kg;

Carcinogenicity:

CAS# 123-30-8: 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.

**Mutagenicity:** No data available. **Neurotoxicity:** No data available.

Other Studies:

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. log POW = 0.04 Environmental: No information available.

Physical: No information available.

Other: Biodegradable.

## 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

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

### **US FEDERAL**

### **TSCA**

CAS# 123-30-8 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.

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 RO

## **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

### **SARA Codes**

CAS # 123-30-8: immediate.

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# 123-30-8 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:**

XN N

### **Risk Phrases:**

R 20/22 Harmful by inhalation and if swallowed.

R 40 Limited evidence of a carcinogenic effect.

R 50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

## Safety Phrases:

- S 36/37 Wear suitable protective clothing and gloves.
- S 60 This material and its container must be disposed of as hazardou
- s waste.

S 28A After contact with skin, wash immediately with plenty of water

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

## WGK (Water Danger/Protection)

CAS# 123-30-8: 2

Canada - DSL/NDSL

CAS# 123-30-8 is listed on Canada's DSL List.

### Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

### **Canadian Ingredient Disclosure List**

CAS# 123-30-8 is listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

MSDS Creation Date: 4/03/2003 **Revision #1 Date:** 10/03/2005

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.