

DATE: 03/30/98 ACCT: 742982001  
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\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

P-Anisidine, 99%  
96578

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: P-Anisidine, 99%  
CAS# 104-94-9  
Cat# AC104830000, AC104830050, AC104831000, AC104832500  
Synonyms: P-Aminoisole; 4-Aminoisole; 4-Anisidine; p-Methoxyaniline  
Company Identification: Acros Organics N.Y.  
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	%	EINECS#
104-94-9	P-Anisidine	99.0	203-254-2

Hazard Symbols: T+ N  
Risk Phrases: 26/27/28 33 50

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

EMERGENCY OVERVIEW

Appearance: Not available.  
Warning: Causes eye irritation. May cause liver and kidney damage.  
May cause cancer based on animal studies. May cause blood abnormalities. May cause sensitization by inhalation and by skin contact.  
Target Organs: Blood, kidneys, liver, None.

Potential Health Effects

Eye: Causes severe eye irritation.

Skin: May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. If absorbed, may cause symptoms similar to those for ingestion.

Ingestion: May cause irritation of the digestive tract. May cause kidney damage. May cause methemoglobinemia, cyanosis, convulsions, and death. Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown colored blood.

Inhalation: May cause severe allergic respiratory reaction. May cause respiratory tract irritation.

Chronic: May cause cancer according to animal studies.

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

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

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

Ingestion: Victim is conscious and alert, give 2-4 cupsful of milk or water. Get medical aid immediately. Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupsful of water, and seek medical advice.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information: As in any fire, wear a self-contained breathing apparatus in protective gear.  
Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

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Autoignition Temperature: 515 deg C ( 959.00 deg F)  
Flash Point: 122 deg C ( 251.60 deg F)  
NFPA Rating: Not published  
Explosion Limits: Lower: Not available.  
Upper: Not available.

\*\*\*\* 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., dry sand or earth), then place into a chemical waste container. Sweep up, then place into a suitable container for disposal.

\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\*

Handling: Thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Do not get on skin or in eyes. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
P-Anisidine	0.1 ppm ; 0.5 ppm mg/m3 IDLH	0.5 ppm mg/m3 TWA	50 0.5 mg/m3 TWA P-Anisidine (listed under ANISIDINE-O, P-ISOMERS)

OSHA Vacated PELs:

P-Anisidine:  
0.5 mg/m3 TWA (listed under ANISIDINE (O-, P- ISOMERS))

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure. Wear appropriate gloves to prevent skin exposure. Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Not available.  
Appearance: Not available.  
Odor: None reported.  
pH: Not available.  
Vapor Pressure: 17 mbar @ 115 C  
Vapor Density: Not available.  
Evaporation Rate: Not available.  
Viscosity: Not available.  
Boiling Point: 240.0 - 243.0 deg C @ 760.00mm Hg  
Freezing/Melting Point: 57.00 - 60.00 deg C  
Decomposition Temperature: 300 deg C  
Solubility: Soluble in acetone and benzene  
Specific Gravity/Density: 1.0809 g/cm3  
Molecular Formula: C7H8O  
Molecular Weight: 123.15

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid:  
None reported.  
Incompatibilities with Other Materials:  
Strong oxidizing agents.  
Hazardous Decomposition Products:  
None reported.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:  
CAS# 104-94-9: BZ5450000

LD50/LC50:  
CAS# 104-94-9: Oral, mouse: LD50 = 1410 mg/kg; Oral, rabbit: LD50 = 2800 mg/kg; Oral, rat: LD50 = 1400 mg/kg; Skin, rat: LD50 = 3200 mg/kg.

Carcinogenicity:  
p-Anisidine:  
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Epidemiology:  
IARC: Group 3 carcinogen

Teratogenicity:  
No data available.

Reproductive Effects:  
No data available.

Neurotoxicity:  
No data available.

Mutagenicity:  
No data available.

Other Studies:  
No data available.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity:  
Not available.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.  
RCRA D-Series Maximum Concentration of Contaminants:  
None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Not listed as a material banned from land disposal according to RCRA.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT  
Shipping Name: ANISIDINES

Hazard Class: 6.1  
UN Number: UN2431

Packing Group: III

IMO  
Shipping Name: ANISIDINES

Hazard Class: 6.1  
UN Number: 2431

Packing Group: III

IATA  
Shipping Name: ANISIDINES, SOLID

Hazard Class: 6.1  
UN Number: 2431

Packing Group: III

RID/ADR  
Shipping Name: ANISIDINES, SOLID

Dangerous Goods Code: 6.1(12C)  
UN Number: 2431

Canadian TDG  
Shipping Name: ANISIDINES, SOLID

Hazard Class: 6.1  
UN Number: UN2431

US FEDERAL  
TSCA

CAS# 104-94-9 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.

None of the chemicals in this material have a SNUR under TSCA.

SARA  
Section 302 (RQ)  
None of the chemicals in this material have an RQ.

Section 302 (TPQ)  
None of the chemicals in this product have a TPQ.

SARA Codes  
CAS # 104-94-9: acute, chronic.

Section 313  
This material contains p-Anisidine (CAS# 104-94-9, 99.0%) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:  
This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

Clean Water Act:  
This material does not contain any Class 2 Ozone depleters.

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

P-Anisidine can be found on the following state right to know lists:  
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

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: 1+ N

Risk Phrases:  
R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

R 50 Very toxic to aquatic organisms.

S 28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident of if you feel unwell, seek medical advice immediately (show the label where possible).

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

WGK (Water Danger/Protection)  
CAS# 104-94-9: 2

Canada  
CAS# 104-94-9 is listed on Canada's DSL/NDSL List.

This product does not have a WHMIS classification.

CAS# 104-94-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 104-94-9: OEL-AUSTRALIA: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-AUSTRIA: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-BELGIUM: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-DENMARK: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-FINLAND: TWA 0.5 mg/m<sup>3</sup>; Skin. OEL-FRANCE: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-GERMANY: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-INDIA: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-THE NETHERLANDS: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-THE PHILIPPINES: TWA 0.5 mg/m<sup>3</sup>; Skin. OEL-RUSSIA: STEL 1 mg/m<sup>3</sup>; Skin. OEL-SWITZERLAND: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-UNITED KINGDOM: TWA 0.1 ppm (0.5 mg/m<sup>3</sup>); Skin. OEL-IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGIH TLV

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/23/1997 Revision #1 Date: 11/13/1997

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 way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits for any special, indirect, incidental, consequential or exemplary damages, including those arising even if Fisher has been advised of the possibility of such damages.