

o-Anisidine, 99+%
ACROS79837

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

MSDS Name: o-Anisidine, 99+%

Catalog Numbers:

AC104810000, AC104810010, AC104810050, AC104811000, AC104812500,
AC10481500
AC104815000, AC4734308

Synonyms:

2-Methoxyaniline

Company Identification (Europe): Acros Organics N.V.
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

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

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
90-04-0	o-Anisidine	99.0+	201-963-1

Hazard Symbols: T+ N
Risk Phrases: 26/27/28 33 45 51/53

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

EMERGENCY OVERVIEW

Appearance: Not available.
Warning! Causes eye irritation. Cancer suspect agent. 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 eyelids. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. 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 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 pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

**** 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.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash 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 -
o-Anisidine	0.1 ppm; skin - potential for cutaneous	0.5 mg/m3 TWA; NIOSH Potential Occupational	0.5 mg/m3 (listed no name

		absorption	Carcinogen-see
			Appendix A
			Potential NIOSH
			carcinogen.
+-----+-----+-----+			
+-----+			

OSHA Vacated PELs:

o-Anisidine:

0.5 mg/m3 TWA (listed under ** no name **)

Personal Protective Equipment

Eyes:

splashing
or
and
Wear safety glasses and chemical goggles if
is possible. Wear appropriate protective eyeglasses
chemical safety goggles as described by OSHA's eye
face protection regulations in 29 CFR 1910.133 or
European Standard EN166.

Skin:

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

Clothing:

Wear appropriate protective clothing to minimize
contact with skin.

Respirators:

149.
Wear a NIOSH/MSHA or European Standard EN 149
approved full-facepiece airline respirator in the
positive pressure mode with emergency escape
provisions. Follow the OSHA respirator regulations
found in 29CFR 1910.134 or European Standard EN

Always use a NIOSH or European Standard EN 149
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: 0.03 hPa @ 20 C

Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 225 deg C @ 760.00mm Hg
Freezing/Melting Point: 5.0 - 6.0 deg C
Autoignition Temperature: 437 deg C (818.60 deg F)
Flash Point: 107 deg C (224.60 deg F)
NFPA Rating: health-2; flammability-1; reactivity-0
Explosion Limits, Lower: Not available.
Upper: Not available.
Decomposition Temperature: >300 deg C
Solubility: 14 g/l (20 c)
Specific Gravity/Density: 1.0920g/cm3
Molecular Formula: C7H9NO
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:

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

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

RTECS#:

CAS# 90-04-0: BZ5410000

LD50/LC50:

CAS# 90-04-0: Oral, mouse: LD50 = 1400 mg/kg; Oral, rabbit: LD50

=

870 mg/kg; Oral, rat: LD50 = 2 gm/kg.

Carcinogenicity:

o-Anisidine -

ACGIH: A3 - Animal Carcinogen

California: carcinogen; initial date 7/1/87

NIOSH: occupational carcinogen (Listed under 'Anisidine

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OSHA: Possible Select carcinogen

IARC: Group 2B carcinogen

Epidemiology:

No data available.

Teratogenicity:

No data available.

Reproductive Effects:

No data available.

Neurotoxicity:

No data available.

Mutagenicity:

No data available.

Other Studies:

Studies of groups of five male rats were administered 1-12 doses of chemical by gavage at 1,000, 500, 100 or 10 mg/kg over 1-16 days. Ingestion of high doses caused prostration, rapid breathing, and pale and swollen kidneys. Lethality occurred in one animal at the 500 mg/kg dose level after 2 doses.

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

**** 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 Part

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

Shipping Name: ANISIDINES

Hazard Class: 6.1

UN Number: UN2431

Packing Group: III

Canadian TDG

Shipping Name: ANISIDINES, LIQUID

Hazard Class: 6.1

UN Number: UN2431

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA

CAS# 90-04-0 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.

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 # 90-04-0: acute, chronic.

Section 313

This material contains o-Anisidine (CAS# 90-04-0, 99 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

CAS# 90-04-0 is listed as a hazardous air pollutant (HAP).

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

o-Anisidine can be found on the following state right to know lists: California, New Jersey, Florida, (listed as ** no name **), Pennsylvania, Minnesota, Massachusetts.

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains o-Anisidine, a chemical known to the state of California to cause cancer.

California No Significant Risk Level:

CAS# 90-04-0: no significant risk level = 5 ug/day

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+ N

Risk Phrases:

with R 26/27/28 Very toxic by inhalation, in contact
skin and if swallowed.
R 33 Danger of cumulative effects.
R 45 May cause cancer.
R 51/53 Toxic to aquatic organisms; may cause
environment. long-term adverse effects in the aquatic

Safety Phrases:

with S 53 Avoid exposure - obtain special instructions
before use.
S 28B After contact with skin, wash immediately
plenty of water and soap.
S 36/37 Wear suitable protective clothing and
gloves.
S 45 In case of accident or 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# 90-04-0: 3

United Kingdom Occupational Exposure Limits

Canada

CAS# 90-04-0 is listed on Canada's DSL/NDSL List.

This product does not have a WHMIS classification.

CAS# 90-04-0 is not listed on Canada's Ingredient Disclosure
List.

Exposure Limits

CAS# 90-04-0: OEL-AUSTRALIA:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-AUSTRIA:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-BELGIUM:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-DENMARK:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-FINLAND:TWA 0.5 mg/m3;STEL 1.5 mg/m3;Skin;CAR
OEL-FRANCE:TWA 0.1 ppm (0.5 mg/m3);Skin;Carcinoge
OEL-GERMANY:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-INDIA:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-THE NETHERLANDS:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL-THE PHILIPPINES:TWA 0.5 mg/m3;Skin
OEL-RUSSIA:STEL 1 mg/m3;Skin
OEL-SWITZERLAND:TWA 0.1 ppm (0.5 mg/m3);STEL 0.2 ppm;Skin
OEL-UNITED KINGDOM:TWA 0.1 ppm (0.5 mg/m3);Skin
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

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

MSDS Creation Date: 7/31/1998 Revision #2 Date: 8/02/2000

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 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.

