



MATERIAL SAFETY DATA SHEET

4-Methyl-2-nitroaniline, 99% 69271

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

MSDS Name: 4-Methyl-2-nitroaniline, 99%

2-Nitro-p-toluidine, 4-Amino-3-nitrotoluene
Company Identification: Acros Organics N.V.
One Reagent Lane
Fairlawn, 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#
89-62-3	4-Methyl-2-nitroaniline, 99%		201-924-9

Hazard Symbols: T N
Risk Phrases: 23/24/25 33 51/53

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

EMERGENCY OVERVIEW

Appearance: Not available.
Hygroscopic.
Target Organs: None.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

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

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. Allow the victim to rinse his mouth and then

to drink 2-4 cupfuls of water, and seek medical advice.

Inhalation:

Remove from exposure to fresh air immediately.

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.

Extinguishing Media:

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

Autoignition Temperature: Not available.

Flash Point: 210 deg C (410.00 deg F)

NFPA Rating: health-2; flammability-1; reactivity-4

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:

Sweep up, then place into a suitable container for disposal.

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

Handling:

Not available.

Storage:

Not available.

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

Engineering Controls:

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
4-Methyl-2-nitroaniline, 99%	2 ppm TWA; 7.6 mg/m3 TWA (listed under ANILINE).skin - potential for cutaneous absorption (listed under ANILINE).	NIOSH Potential Occupational Carcinogen - see Appendix A (listed under	5 ppm TWA; 19 mg/m3 TWA (listed under ANILINE).

OSHA Vacated PELs:

4-Methyl-2-nitroaniline, 99%:

2 ppm TWA; 8 mg/m3 TWA (listed under ANILINE)

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

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

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

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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

Physical State: Not available.
Appearance: Not available.
Odor: None reported.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 140 deg C @ 10.00mm Hg
Freezing/Melting Point: 115.0 - 116.0 deg C
Decomposition Temperature: 210 deg C
Solubility: 0.02% (20 c)
Specific Gravity/Density: Not available.
Molecular Formula: C7H8N2O2
Molecular Weight: 152.15

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

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Not available.
Incompatibilities with Other Materials: Acids - acid chlorides - acid anhydrides - chloroformates - 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# 89-62-3 unlisted.
LD50/LC50: Not available.
Carcinogenicity: 4-Methyl-2-nitroaniline, 99% -
ACGIH: A3 - Animal Carcinogen (listed as ANILINE).
California: carcinogen - initial date 1/1/90 (listed as ANILINE).
NIOSH: occupational carcinogen (listed as ANILINE)
OSHA: Possible select carcinogen (listed as ANILINE).
IARC: Group 3 carcinogen (listed as ANILINE).

**** 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: NITROTOLUIDINES (MONO)
Hazard Class: 6.1
UN Number: 2660
Packing Group: III

IMO

Shipping Name: NITROTOLUIDINES (MONO)
Hazard Class: 6.1
UN Number: 2660
Packing Group: III

IATA

Shipping Name: NITROTOLUIDINES (MONO)
Hazard Class: 6.1
UN Number: 2660
Packing Group: III

RID/ADR

Shipping Name: NITROTOLUIDINES (MONO)

Dangerous Goods Code: 6.1(12C)
UN Number: 2660

Canadian TDG

Shipping Name: NITROTOLUIDINES (MONO)
Hazard Class: 6.1
UN Number: UN2660

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

US FEDERAL

TSCA

CAS# 89-62-3 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.
Section 313
This chemical is not at a high enough concentration to be reportable under Section 313.
Clean Air Act:
CAS# 89-62-3 listed as ANILINE 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:

CAS# 89-62-3 is listed as a Hazardous Substance 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

4-Methyl-2-nitroaniline, 99% can be found on the following state right to know lists: California, (listed as ANILINE), New Jersey, (listed as ANILINE), Florida, Pennsylvania, Minnesota, (listed as ANILINE), Massachusetts.

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

WARNING: This product contains 4-Methyl-2-nitroaniline, 99%, listed as 'ANILINE', a chemical known to the state of California to cause cancer.

California No Significant Risk Level:

CAS# 89-62-3: no significant risk level = 100 ug/day (listed under ANILINE)

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

R 51/53 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 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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# 89-62-3: 2

Canada

CAS# 89-62-3 is listed on Canada's DSL/NDSL List.

This product does not have a WHMIS classification.

CAS# 89-62-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 89-62-3 (listed as aniline): OEL-ARAB Republic of Egypt:TWA 2 ppm (10 mg/m3);Skin. OEL-AUSTRALIA:TWA 2 ppm (10 mg/m3);Skin. OEL-AUSTRIA :TWA 2 ppm (8 mg/m3);Skin. OEL-BELGIUM:TWA 2 ppm (7.6 mg/m3);Skin. OEL -CZECHOSLOVAKIA:TWA 5 mg/m3;STEL 20 mg/m3 JAN9. OEL-DENMARK:TWA 1 ppm (4 mg/m3);Skin. OEL-FINLAND:TWA 2 ppm (7.6 mg/m3);STEL 4 ppm (15 mg/m3);Skin;CAR. OEL-FRANCE:TWA 2 ppm (10 mg/m3);Skin. OEL-GERMANY:TWA 2 ppm (8 mg/m3);Skin;Carcinogen. OEL-HUNGARY:TWA 5 mg/m3;STEL 10 mg/m3;Skin. OEL-INDIA:TWA 0.2 mg/m3;Skin. OEL-JAPAN:TWA 1 ppm (3.8 mg/m3);Skin

A 5 ppm (19 mg/m3);Skin. OEL-POLAND:TWA 5 mg/m3;STEL 20 mg/m3;Skin. OEL-RUSSIA:TWA 1 ppm;STEL 0.1 mg/m3;Skin. OEL-SWEDEN:TWA 1 ppm (4 mg/m3);STEL 2 ppm (8 mg/m3);Skin. OEL-SWITZERLAND:TWA 2 ppm (8 mg/m3);STEL 1

0 ppm (40 mg/m3);Skin. OEL-TURKEY:TWA 5 ppm (19 mg/m3);Skin. OEL-UNITED KINGDOM:TWA 2 ppm (10 mg/m3);STEL 5 ppm;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: 3/01/1994 Revision #1 Date: 3/04/1996

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 or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

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