

# **SAFETY DATA SHEET**

Creation Date 01-Sep-2011 Revision Date 28-Dec-2021 Revision Number 5

1. Identification

Product Name 5-Methyl-2-nitroaniline

Cat No.: AC441620000; AC441620010; AC441620050

**CAS No** 578-46-7

**Synonyms** 6-Nitro-m-toluidine; 3-Amino-4-nitrotoluene

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Category 3
Acute dermal toxicity

Category 3
Acute Inhalation Toxicity - Dusts and Mists

Category 3
Specific target organ toxicity - (repeated exposure)

Category 2

Target Organs - Blood, Hematopoietic System.

#### Label Elements

## Signal Word

Danger

## **Hazard Statements**

May cause damage to organs through prolonged or repeated exposure

Toxic if swallowed, in contact with skin or if inhaled



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

# Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

## Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
5-Methyl-o-nitroaniline	578-46-1	>95

### 4. First-aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a

pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx).

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

# 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe

areas.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up** 

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert

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atmosphere.	Incompatible Materials.	Strong oxidizing agents. Strong acids.	

# 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers **Engineering Measures** 

are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

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

**Respiratory Protection** 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.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

**Physical State** Solid Brown **Appearance** 

Odor No information available **Odor Threshold** No information available

рΗ No information available

104.5 - 105.5 °C / 220.1 - 221.9 °F Melting Point/Range

**Boiling Point/Range** No information available No information available Flash Point Not applicable **Evaporation Rate** 

No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available Solubility No information available Partition coefficient; n-octanol/water No data available

No information available **Autoignition Temperature** 

**Decomposition Temperature** No information available Not applicable **Viscosity** 

**Molecular Formula** C7H8N2O2 **Molecular Weight** 152.15

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stable under recommended storage conditions. Air sensitive. Stability

**Conditions to Avoid** Incompatible products. Excess heat. Avoid dust formation. Exposure to air.

**Incompatible Materials** Strong oxidizing agents, Strong acids

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NOx)

Hazardous polymerization does not occur. **Hazardous Polymerization** 

Revision Date 28-Dec-2021

5-Methyl-2-nitroaniline

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

No information available Sensitization

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
5-Methyl-o-nitroaniline	578-46-1	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known

STOT - repeated exposure Blood Hematopoietic System

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability No information available

**Bioaccumulation/ Accumulation** No information available.

No information available. **Mobility** 

# 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a

> hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

Revision Date 28-Dec-2021

#### 5-Methyl-2-nitroaniline

UN-No UN2660

Proper Shipping Name NITROTOLUIDINES (MONO)

Hazard Class 6.1 Packing Group III

TDG

UN-No UN2660

Proper Shipping Name MONONITROTOLUIDINES

Hazard Class 6.1 Packing Group

IATA

**UN-No** UN2660

Proper Shipping Name NITROTOLUIDINES (MONO)

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN2660

Proper Shipping Name NITROTOLUIDINES (MONO)

Hazard Class 6.1
Packing Group

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
5-Methyl-o-nitroaniline	578-46-1	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Co	mponent	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
5-Methy	/l-o-nitroaniline	578-46-1	-	-	209-423-7	-	Χ	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and N

Health Administration

Not applicable

CERCLA Not applicable

**California Proposition 65**This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

5-Methyl-o-nitroaniline

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
5-Methyl-o-nitroaniline	578-46-1	Not applicable	Not applicable	Not applicable	Not applicable
0	04011-	Down on HI Direction		D = 11 = 1 =	D10
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Maior Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

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10.	Other	ппоппапо	

578-46-1

Prepared By Regulatory Affairs

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Notification

Not applicable

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Requirements

Not applicable

Not applicable

Not applicable

Harmonized System of Classification and Labeling of Chemicals (GHS).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**