



# **SAFETY DATA SHEET**

Preparation Date: 12/16/2014 Revision Date: Not Applicable Revision Number: Not Applicable

**Product identifier** 

Product code: A1161

Product Name: 2-Amino-5-(diethylamino)toluene Monohydrochloride

Other means of identification

Synonyms: 4-(Diethylamino)-o-toluidine Monohydrochloride; 2-Methyl-4-(diethylamino)aniline

Monohydrochloride

CAS #: 2051-79-8 RTECS # SS9560000 CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

<u>Emergency telephone number</u> Chemtrec 1-800-424-9300 <u>Contact Person:</u> Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

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

Acute toxicity - Oral	Category 3
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

#### Label elements

Product name: 2-Amino-5-(diethylamino)toluene Monohydrochloride

#### Danger

#### Hazard statements

Toxic if swallowed

Causes serious eye irritation

May cause an allergic skin reaction



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

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

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

Components	CAS-No.	Weight %	Trade Secret
2-Amino-5-(diethylamino)toluene Monohydrochloride 2051-79-8	2051-79-8	100	*

Product code: A1161

Product name: 2-Amino-5(diethylamino)toluene
Monohydrochloride

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#### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention

is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician

immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce 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 without medical advice. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately. Toxic if

swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation. Eye contact may result in redness or pain. May cause allergic skin

reaction. Toxic if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides, Halogenated compounds,

HCl gas

Specific hazards: May be combustible at high temperatures

Fine dust dispersed in air in sufficient concentrations, and in

the presence of an ignition source is a potential dust

explosion hazard

**Special Protective Actions for Firefighters** 

Product code: A1161 Product name: 2-Amino-5- 3 / 12

**Specific Methods:** Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the

material.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Air sensitive. Store under inert gas.

#### **Incompatible Materials:**

Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

#### National occupational exposure limits

**United States** 

Product code: A1161 Product name: 2-Amino-5- 4 / 12

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
2-Amino-5-(diethylamino)toluene	None	None	None	None
Monohydrochloride				
2051-79-8				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
2-Amino-5-(diethylamino)toluene	None	None	None	None
Monohydrochloride				
2051-79-8				

#### **Australia and Mexico**

Components	Australia	Mexico
2-Amino-5-(diethylamino)toluene	None	None
Monohydrochloride		
2051-79-8		

## Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment** 

Product code: A1161

Eye protection: Safety glasses. Safety glasses with side-shields.

Long sleeved clothing. Chemical resistant apron. Gloves. Skin and body protection:

Respiratory protection: Effective dust mask. Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: 2-Amino-5-(diethylamino)toluene Monohydrochloride

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Crystals. Powder. White. Off-white.

Odor: Taste Molecular/Formula weight:

No information available No information available 214.73

Formula: Flammability: Flash point (°C):
C11H18N2•HCl No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%):

No information available No information available No information available

Upper Explosion Limit (%): Autoignition Temperature (°C/°F): pH:

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

250°C/482°F No information available No information available

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

Density (g/cm3): Evaporation rate: Vapor density:

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available

Viscosity: Miscibility: Solubility:

### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stability: Sensitive to air.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials. Avoid dust formation. Dust may form

explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to

air.

**Incompatible Materials:** Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides. Halogenated compounds. Hydrogen chloride gas. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

Product code: A1161 Product name: 2-Amino-5- 6 / 12

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Eyes. Ingestion. Inhalation. Skin.

### **Acute Toxicity**

### **Component Information**

2-Amino-5-(diethylamino)toluene Monohydrochloride - 2051-79-8

LD50/oral/rat = = 200 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = 25 mg/kg, intraperitoneal, rat;

>1 gm/kg, skin, guinea pig

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 200mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: A1161

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Toxic if swallowed.

Aspiration hazard No information available

Product name: 2-Amino-5-(diethylamino)toluene Monohydrochloride

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

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
2-Amino-5-	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
(diethylamino)toluene Monohydrochloride						

Reproductive toxicity

No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

#### 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Product code: A1161 Product name: 2-Amino-5- 8 / 12

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Amino-5-(diethylamino)toluene Monohydrochloride	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solids, organic, n.o.s. (2-Amino-5-(diethylamino)toluene Monohydrochloride)

Hazard Class: 6.

**Subsidiary Risk:** 

Packing Group: III ERG No: 154

Marine Pollutant No data available DOT RQ (lbs): No information available

Symbol(s):

TDG (Canada)

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

**Description:** No information available

**ADR** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1
Packing Group: III

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description:

IMDG Page:

No information available

No information available

No information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

**UN-No:** UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Product code: A1161

Product name: 2-Amino-5(diethylamino)toluene
Monohydrochloride

### 14. TRANSPORT INFORMATION

Classification Code: No information available Description: No information available

**ICAO** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

**Description:** No information available

**IATA** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: III ERG Code: 6L

**Description:** No information available

### 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	1.1.	Japan ENCS	CHINA	Australia	EINECS-No.
			(PICCS)			(AICS)	
2-Amino-5-(diethylamino)toluene	Present	Present KE-	Present	Not present	Present	Present	Present 218-130-3
Monohydrochloride		10495					

#### U.S. Regulations

## California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
2-Amino-5-(diethylamino)toluene	Not Listed	Not Listed	Not Listed	Not Listed
Monohydrochloride				

#### **CERCLA/SARA**

•	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2-Amino-5- (diethylamino)toluene Monohydrochloride	None	None	None	None	None

#### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2-Amino-5-(diethylamino)toluene Monohydrochloride	Not Applicable	Not Applicable

## Canada

#### WHMIS hazard class:

D1B Toxic materials D2B Toxic materials

### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

### Inventory

Components	Canada (DSL)	Canada (NDSL)
2-Amino-5-(diethylamino)toluene	Present	Not Listed
Monohydrochloride		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting	
2-Amino-5-(diethylamino)toluene	Not listed	Not listed	
Monohydrochloride			

#### **EU Classification**

## R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
2-Amino-5-(diethylamino)toluene	T; R25	No information	S1/2 S24 S26 S37 S45
Monohydrochloride	Xi; R36		S60 S61
	R43		
	N; R50-53		

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

None.

Product code: A1161 Product name: 2-Amino-5- 11 / 12

## 16. OTHER INFORMATION

Preparation Date: 12/16/2014
Revision Date: Not Applicable
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: A1161

Product name: 2-Amino-5(diethylamino)toluene
Monohydrochloride