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# 3-Amino-1,2,4-Triazole CAS No 61-82-5

# **MATERIAL SAFETY DATA SHEET** SDS/MSDS

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	<b>Product identifiers</b> Product name	:	3-Amino-1,2,4-Triazole
	CAS-No.	:	61-82-5
1.2	Relevant identified uses o	of th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3 Details of the supplier of the safety data sheet         Company       : Central Drug House (P) Ltd         7/28 Vardaan House         Ansari Road Daryaganj         New Delhi-110002         INDIA		Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002	
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	<b>Emergency telephone nu</b> Emergency Phone #		er +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Reproductive toxicity (Category 2), H361d Specific target organ toxicity - repeated exposure (Category 2), H373 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

Hazard statement(s) H361d H373 H411

Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
Supplemental Hazard Statements	none

#### 2.3 Other hazards - none

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	:	1,2,4-Triazol-3-amine 3-AT Amitrol
Formula	:	C2H4N2
Molecular weight	:	84.08 g/mol
CAS-No.	:	61-82-5
EC-No.	:	200-521-5
Index-No.	:	613-011-00-6

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Amitrole	o		100.01
CAS-No. EC-No.	61-82-5 200-521-5	Repr. 2; STOT RE 2; Aquatic Chronic 2; H361d, H373, H411	<= 100 %
Index-No.	613-011-00-6		

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

6.2

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

# **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C Storage class (TRGS 510): Combustible Solids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder / scales
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 149 - 154 °C - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	soluble
o)	Partition coefficient: n-	log Pow: -0.969 at 23 °C
	octanol/water	
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
	<b>her safety information</b> data available	

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

9.2

No data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents, Strong acids, Copper, Iron and iron salts.

# 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 25,000 mg/kg(Amitrole) LC50 Inhalation - Rat - 4 h - > 400 mg/m3(Amitrole) LD50 Dermal - Rat - > 10,000 mg/kg(Amitrole)

#### Skin corrosion/irritation

Skin - Rabbit(Amitrole) Result: Mild skin irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit(Amitrole) Result: Mild eye irritation

# Respiratory or skin sensitisation

No data available(Amitrole)

#### Germ cell mutagenicity

In vivo tests showed mutagenic effects(Amitrole)

# Carcinogenicity

This product is or contains a component that has been reported to be possi classification.(Amitrole) (Amitrole)

(Amitrole)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Amitrole)

#### **Reproductive toxicity**

Possible risk of congenital malformation in the fetus.(Amitrole) Suspected human reproductive toxicant(Amitrole)

# Specific target organ toxicity - single exposure

No data available(Amitrole)

#### Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Amitrole)

# **Additional Information**

RTECS: XZ3850000

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fishLC50 - Pimephales promelas (fathead minnow) - > 100 mg/l- 96.0 h(Amitrole)Toxicity to daphnia and<br/>other aquatic<br/>invertebratesEC50 - Daphnia magna (Water flea) - 30 mg/l- 48 h(Amitrole)

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 11.4 mg/l - 96 h(Amitrole)

## 12.2 Persistence and degradability

Biodegradability

Result: 0 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301)

**12.3 Bioaccumulative potential** No data available

# 12.4 Mobility in soil

No data available(Amitrole)

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

# Product

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Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

# Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

# 14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amitrole) (Amitrole) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amitrole) (Amitrole)

IATA: Environmentally hazardous substance, solid, n.o.s. (Amitrole) (Amitrole)

44.0	On a stat was a sufficient for use on		
14.5	Environmental hazards ADR/RID: yes	IMDG Marine pollutant: no	IATA: yes
14.4	Packaging group ADR/RID: III	IMDG: III	IATA: III
14.3	Transport hazard class(es) ADR/RID: 9	IMDG: 9	IATA: 9

# 14.6 Special precautions for user

# Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

# **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.