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

Catalogue Number	CS-T-44867
Product Name	1,2,4-Triazole
CAS No.	288-88-0
Category	Pesticide Standards
Synonyms	1H-1,2,4-Triazole
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Serious eye damage/eye irritation (Category 2)
Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H361	Not available

H412	Not available
H360	Not available
H402	Not available
H313	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen
P318	Not available
P330	Not available
P337+P317	If eye irritation persists: Get medical help.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P273	Not available
P302+P317	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : 1,2,4-Triazole
CAS Number : 288-88-0
Molecular Formula : C2H3N3
Molecular Weight : 69.07
Parent Chemical : Fluconazole
Synonyms : 1H-1,2,4-Triazole
Concentration : Not available

SECTION 4: First aid measures

Not available

SECTION 5: Firefighting measures

Not available

SECTION 6: Accidental release measures

Not available

SECTION-7: Handling and storage

Not available

SECTION 8: Exposure controls / personal protection

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	White solid
IR spectrum	No data available
pH	No data available
Solubility	In water

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available

Property	Value
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

Not available

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: /LABORATORY ANIMALS: Acute Exposure/ Skin irritation test: rabbits, exposure time 24 hr, ear, dose: approx 500 mg/animal, semi-occlusive, observation period: 7 days. Result: non-irritating. /LABORATORY ANIMALS: Acute Exposure/ Eye irritation test: rabbits, dose approx 50 mg/animal, observation period: 7 days. Result: highly irritating.
- Skin corrosion/irritation: Causes respiratory tract irritation, skin irritation. and eye irritation. /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Harmful if swallowed.
- Serious eye damage/eye irritation: Causes respiratory tract irritation, skin irritation. and eye irritation. /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Harmful if swallowed.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Male and female Wistar rats were fed 1H-1,2,4-triazole in their feed for 13 weeks, dosage: 100, 500, or 2500 ppm (approx 7, 33, or 167 mg/kg bw/day). A control group received untreated diet. Results: no indications of treatment-induced organ alterations (with the exception of liver findings in the 2500 ppm group). 2500 ppm (approx 167 mg/kg bw/day): temporarily reduced food consumption and lower body weights, temporary slight convulstions in individuals, lower hemoglobin, hematocrit, MCV /mean corpuscular volume/ and MCH /mean corpuscular hemoglobin/ values in the

male rats, slight to moderate fat accumulation in liver parenchyma cells in 3/15 males.
- Aspiration hazard: No data available.

Likely routes of exposure
- /LABORATORY ANIMALS: Acute Exposure/ In an inhalation experiment rats and mice (strains not given) were exposed to 1H-1,2,4-triazole for 4 or 6 hr (test atmosphere saturated with the substance, whole-body exposure). Following the exposure period the animals were observed for 14 days. No signs of toxicity occurred.

Symptoms related to the physical, chemical and toxicological characteristics
- /SIGNS AND SYMPTOMS/ May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Harmful if swallowed.

SECTION 12: Ecological information

Not available

SECTION 13: Disposal considerations

Not available

SECTION 14: Transport information

Not available

SECTION 15: Regulatory information

Not available

SECTION 16: Other information

Not available

DISCLAIMER

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