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

Catalogue Number	CS-T-43332
Product Name	Terbutryn
CAS No.	886-50-0
Category	Pesticide Standards
Synonyms	N2-(tert-butyl)-N4-ethyl-6-(methylthio)-1,3,5-triazine-2,4-diamine
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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H332	Harmful if inhaled.
H400	Not available
H410	Not available

Precautionary Statement(s)

Code	Statement
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P272	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen
P317	Not available
P321	Specific treatment (see … on this label).
P330	Not available
P333+P317	Not available
P337+P317	If eye irritation persists: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Terbutryn
CAS Number : 886-50-0

Molecular Formula : C10H19N5S
Molecular Weight : 241.36
Parent Chemical : -
Synonyms : N2-(tert-butyl)-N4-ethyl-6-(methylthio)-1,3,5-triazine-2,4-diamine
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	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available

Property	Value
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
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: Some triazines are mildly irritating to skin, eyes, & upper respiratory tract. /Miscellaneous pesticides of low or moderate toxicity/ LC50 (rat) > 8,000 mg/m3/4h
- Skin corrosion/irritation: /SIGNS AND SYMPTOMS/ Adverse effects have occurred only rarely as result of ... contact with these herbicides. Most injuries reported have been skin irritation after prolonged contact. In varying degrees these herbicides are likely to produce irritation of gut if ingested in substantial quantity. ... Some compounds of these classes cause irritation of eyes and mucous membranes, particularly if direct contact is protracted. Nausea, vomiting, and diarrhea can be expected to result from ingestion of large quantities. /Urea-, uracil- and triazine-based herbicides/ /LABORATORY ANIMALS: Acute Exposure/ Rabbit eye irritation with Igran 80W is classified moderately irritating and primary skin irritation with rabbits is only slightly irritating.
- Serious eye damage/eye irritation: /LABORATORY ANIMALS: Acute Exposure/ Rabbit eye irritation with Igran 80W is classified moderately irritating and primary skin irritation with rabbits is only slightly irritating.
- Respiratory or skin sensitization: /LABORATORY ANIMALS: Acute Exposure/ Acute Toxicity: Terbutryn is slightly toxic. It affects the central nervous system in animals leading to incoordination, convulsions, or labored breathing. At

extremely high dosages, the animals showed swelling and fluid in the lungs and central nervous system. The dose which kills half of the test animals, the LD50, is 2450-2500 mg/kg for rats and 3884 mg/kg for mice. The LD50 for dermal exposure is greater than 2,000 mg/kg for rabbits.The concentration in air which kills half of the test animals by inhalation, the LC50 (4 hours), is greater than 8 mg of an 80% formulation per liter of air for rats. Terbutryn is not a skin sensitizer. /LABORATORY ANIMALS: Acute Exposure/ Terbutryne is a nonsensitizer. /Technical grade/ /From table/
- Germ cell mutagenicity: /GENOTOXICITY/ ... In this study, the DNA-damaging ability of the herbicide was evaluated in the alkaline single-cell microgel-electrophoresis ("comet") assay by testing terbutryn in the presence of S9 mix (rat liver homogenate containing microsomal enzymes plus cofactors) prepared with liver homogenate from both uninduced (basal) and Aroclor 1254-induced rats. DNA damage was recorded in freshly isolated human peripheral blood leukocytes. A statistically significant increase in the extent of primary DNA damage, more pronounced in the absence of S9 mix, took place only when terbutryn concentrations were high (100 and 150 ug/mL), in the presence of a concomitant mild cytotoxic effect.
- Carcinogenicity: Cancer Classification: Group C Possible Human Carcinogen
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- /SIGNS AND SYMPTOMS/ Adverse effects have occurred only rarely as result of ... contact with these herbicides. Most injuries reported have been skin irritation after prolonged contact. In varying degrees these herbicides are likely to produce irritation of gut if ingested in substantial quantity. ... Some compounds of these classes cause irritation of eyes and mucous membranes, particularly if direct contact is protracted. Nausea, vomiting, and diarrhea can be expected to result from ingestion of large quantities. /Urea-, uracil- and triazine-based herbicides/

Symptoms related to the physical, chemical and toxicological characteristics
- /SIGNS AND SYMPTOMS/ Adverse effects have occurred only rarely as result of ... contact with these herbicides. Most injuries reported have been skin irritation after prolonged contact. In varying degrees these herbicides are likely to produce irritation of gut if ingested in substantial quantity. ... Some compounds of these classes cause irritation of eyes and mucous membranes, particularly if direct contact is protracted. Nausea, vomiting, and diarrhea can be expected to result from ingestion of large quantities. /Urea-, uracil- and triazine-based herbicides/

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

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