

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

Catalogue Number	CS-T-29810
Product Name	Isopentyl Nitrite
CAS No.	110-46-3
Category	Fine Chemicals
Synonyms	isopentyl nitrite
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:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H225	Not available
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Not available

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Not available
H400	Not available
H412	Not available
H331	Not available
H370	Not available

Precautionary Statement(s)

Code	Statement
P210	Not available
P233	Not available
P240	Not available
P241	Not available
P242	Not available
P243	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P303+P361+P353	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P317	Not available
P330	Not available
P370+P378	Not available
P403+P235	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P203	Not available

P260	Not available
P264+P265	Not available
P272	Not available
P301+P330+P331	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P302+P361+P354	Not available
P305+P354+P338	Not available
P316	Not available
P318	Not available
P321	Specific treatment (see ... on this label).
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Not available
P405	Store locked up.
P273	Not available
P391	Not available
P308+P316	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Isopentyl Nitrite

CAS Number : 110-46-3

Molecular Formula : C₅H₁₁NO₂

Molecular Weight : 117.15

Parent Chemical : Not available

Synonyms : isopentyl nitrite

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
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

Property	Value
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: LC50 (rat) = 716 ppm/4h /HUMAN EXPOSURE STUDIES/ Heart rate responses to inhalation of amyl nitrite by patient during acute adrenergic beta blockade with iv propranolol varied greatly from patient to patient but because of its marked hypotensive effect it proved to be very potent stimulus for heart rate incr.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: /LABORATORY ANIMALS: Acute Exposure/ Inhalation of small amt of vapor causes ...in some... animals slight momentary rise in intraocular pressure.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: /GENOTOXICITY/ Isoamyl nitrite was found to be positive when tested for mutagenicity using the Salmonella/microsome preincubation assay, using the standard protocol approved by the National Toxicology Program (NTP). Isoamyl nitrite was tested in as many as 5 Salmonella typhimurium strains (TA1535, TA1537, TA97, TA98, and TA100) in the presence and absence of rat and hamster liver S-9, at doses of 0.010, 0.033, 0.100, 0.333, 1.000, 3.333, and 6.666 mg/plate. The lowest positive dose tested in any S. typhimurium strain was 0.100 mg/plate in strain TA1535 with 10% rat liver S-9. Slight to total clearing of the background bacterial lawn was exhibited in cultures containing the two highest doses.
- Carcinogenicity: /GENOTOXICITY/ Isoamyl nitrite was found to be positive when tested for mutagenicity using the Salmonella/microsome preincubation assay, using the standard protocol approved by the National Toxicology Program (NTP). Isoamyl nitrite was tested in as many as 5 Salmonella typhimurium strains (TA1535, TA1537, TA97, TA98, and TA100) in the presence and absence of rat and hamster liver S-9, at doses of 0.010, 0.033, 0.100, 0.333, 1.000, 3.333, and 6.666 mg/plate. The lowest positive dose tested in any S. typhimurium strain was 0.100 mg/plate in strain TA1535 with 10% rat liver S-9. Slight to total clearing of the background bacterial lawn was exhibited in cultures containing the two highest doses.
- 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

- See Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics

- Blue lips, fingernails and skin. Confusion. Convulsions. Dizziness. Headache. Sweating. Nausea.

Unconsciousness. Vomiting. Flushing of the face. Symptoms may be delayed.

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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