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

Catalogue Number	CS-EJ-00051
Product Name	Crotoxyphos
CAS No.	7700-17-6
Category	Pesticide Standards
Synonyms	Pantozol 1; SD 4294; Volfazol; (E)-3-[(Dimethoxyphosphinyl)oxy]-2-butenoic Acid 1-Phenylethyl Ester; (E)-3-Hydroxycrotonic Acid α-Methylbenzyl Ester Dimethyl Phosphate; 3-Hydroxycrotonic Acid α-Methylbenzyl Ester Dimethyl Phosphate; Ciodrin; Crotoxyfos; Crotoxyphos; Cyodrin; Dimethyl 2-(α-Methylbenzyloxycarbonyl)-1-methylvinyl Phosphate; O,O-Dimethyl O-[1-Methyl-2-(1-phenylcarbethoxy)vinyl] Phosphate; (E)-1-Phenylethyl 3-((Dimethoxyphosphoryl)oxy)but-2-enoate
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:

Not available

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement

H301	Not available
H311	Not available
H400	Not available
H410	Not available
H300	Not available

Precautionary Statement(s)

Code	Statement
P262	Not available
P264	Wash hands thoroughly after handling.
P270	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P316	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P316	Not available
P321	Specific treatment (see … on this label).
P330	Not available
P361+P364	Not available
P391	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Crotoxyphos
CAS Number : 7700-17-6
Molecular Formula : C■■H■■O■P
Molecular Weight : 314.274
Parent Chemical : -
Synonyms : Pantozol 1; SD 4294; Volfazol; (E)-3-[(Dimethoxyphosphinyl)oxy]-2-butenoic Acid 1-Phenylethyl Ester; (E)-3-Hydroxycrotonic Acid α-Methylbenzyl Ester Dimethyl Phosphate; 3-Hydroxycrotonic Acid α-Methylbenzyl Ester Dimethyl Phosphate; Ciodrin; Crotoxyfos; Crotoxyphos; Cyodrin; Dimethyl

2-(α-Methylbenzyloxycarbonyl)-1-methylvinyl Phosphate; O,O-Dimethyl O-[1-Methyl-2-(1-phenylcarbethoxy)vinyl] Phosphate; (E)-1-Phenylethyl 3-((Dimethoxyphosphoryl)oxy)but-2-enoate
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice:
- Seek medical attention if symptoms occur or persist.
- Show this Safety Data Sheet to medical personnel.
- Do not leave affected person unattended.

Inhalation:
- Move person to fresh air.
- Keep at rest in a position comfortable for breathing.
- If breathing is difficult, seek medical attention.

Skin contact:
- Remove contaminated clothing and shoes.
- Wash skin with plenty of water and soap.
- Seek medical attention if irritation or symptoms occur.

Eye contact:
- Rinse cautiously with water for several minutes.
- Remove contact lenses if present and easy to do; continue rinsing.
- Seek medical attention if irritation persists.

Ingestion:
- Rinse mouth.
- Do NOT induce vomiting unless directed by medical personnel.
- Never give anything by mouth to an unconscious person.
- Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- No data available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.
- No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media:
- Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO2).
Unsuitable extinguishing media:
- No data available.

5.2 Special hazards arising from the substance or mixture
- Combustion may produce irritating and/or toxic fumes.
- Thermal decomposition products may include phosphorus oxides and other hazardous gases/vapors.
- No data available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Use water spray to cool unopened containers.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel.
- Avoid breathing dust/vapors/mist.
- Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface water, and soil.
- Notify authorities if significant contamination occurs.

6.3 Methods and material for containment and cleaning up
- Contain spill.
- Absorb with inert material (e.g., sand, earth, vermiculite).
- Collect into suitable, labeled containers for disposal.
- Clean contaminated area with water and detergent; avoid generating aerosols.

6.4 Reference to other sections
- See Section 8 for personal protective equipment.
- See Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Use only with adequate ventilation.
- Avoid contact with skin, eyes, and clothing.
- Avoid breathing dust/vapors/mist.
- Do not eat, drink, or smoke when using this product.
- Wash hands thoroughly after handling.
- Keep container tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a cool, dry, well-ventilated place.

- Keep away from heat, sparks, open flames, and direct sunlight.
- Store in original container, tightly closed.
- Keep away from incompatible materials.

Incompatible materials:
- Strong oxidizing agents.
- Strong acids and strong bases.
- No data available.

7.3 Specific end use(s)
- Laboratory/research use; pesticide standard.
- No data available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits:
- No data available.

Biological limit values:
- No data available.

8.2 Exposure controls
Engineering controls:
- Use local exhaust ventilation or general ventilation to minimize exposure.
- Provide eyewash station and safety shower.

Personal protective equipment (PPE):
Eye/face protection:
- Safety glasses with side shields or chemical splash goggles.

Skin protection:
- Wear appropriate chemical-resistant gloves.
- Wear protective clothing to prevent skin contact.

Respiratory protection:
- If ventilation is inadequate, use appropriate respiratory protection.
- Selection should be based on workplace exposure assessment.

Hygiene measures:
- Wash hands and exposed skin after handling.
- Remove contaminated clothing and wash before reuse.

Environmental exposure controls:
- Avoid release to the environment; use appropriate containment.

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
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

SECTION 10: Stability and reactivity

10.1 Reactivity
- 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
- Heat, flames, ignition sources.
- Moisture (if applicable).
- No data available.

10.5 Incompatible materials
- Strong oxidizing agents.
- Strong acids and strong bases.
- No data available.

10.6 Hazardous decomposition products
- Phosphorus oxides and other irritating/toxic fumes.
- No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: ACUTE SYMPTOMS: /ORALLY, MALLARDS SHOWED/ ATAXIA, LEG WEAKNESS, WINGS CROSSED HIGH OVER BACK, OPISTHOTONOS. MOST MORTALITIES OCCURRED ABOUT AN HOUR AFTER ADMIN. LD50 MALLARD ORAL 790 MG/KG (95% CONFIDENCE LIMIT 411-1520 MG/KG), 3-4 MO OLD MALES /TECHNICAL, 85%/
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: Symptomatology: 1. Nausea...vomiting, abdominal cramps, diarrhea, excessive salivation... 2. Headache, giddiness, vertigo & weakness. 3. Rhinorrhea & sensation of tightness in chest are common in inhalation exposure. 4. Blurring or dimness of vision, miosis... Tearing, ciliary muscle spasm, loss of accommodation & ocular pain... Mydriasis...sometimes seen...probably due to sympatho-adrenal discharge. 5. Bradycardia or tachycardia. Varying degrees of AV heart block are described, as well as atrial arrhythmias. 6. Loss of muscle coordination, slurring of speech, fasciculations & twitching of muscles (particularly of tongue & eyelids, & generalized profound weakness. 7. Mental confusion, disorientation & drowsiness. /Parathion/
- 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: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- Symptomatology: 1. Nausea...vomiting, abdominal cramps, diarrhea, excessive salivation... 2. Headache, giddiness, vertigo & weakness. 3. Rhinorrhea & sensation of tightness in chest are common in inhalation exposure. 4. Blurring or dimness of vision, miosis... Tearing, ciliary muscle spasm, loss of accommodation & ocular pain... Mydriasis...sometimes seen...probably due to sympatho-adrenal discharge. 5. Bradycardia or tachycardia. Varying degrees of AV heart block are described, as well as atrial arrhythmias. 6. Loss of muscle coordination, slurring of speech, fasciculations & twitching of muscles (particularly of tongue & eyelids, & generalized profound weakness. 7.

Mental confusion, disorientation & drowsiness. /Parathion/

Symptoms related to the physical, chemical and toxicological characteristics
- Symptomatology: 1. Nausea...vomiting, abdominal cramps, diarrhea, excessive salivation... 2. Headache, giddiness, vertigo & weakness. 3. Rhinorrhea & sensation of tightness in chest are common in inhalation exposure. 4. Blurring or dimness of vision, miosis... Tearing, ciliary muscle spasm, loss of accommodation & ocular pain... Mydriasis...sometimes seen...probably due to sympatho-adrenal discharge. 5. Bradycardia or tachycardia. Varying degrees of AV heart block are described, as well as atrial arrhythmias. 6. Loss of muscle coordination, slurring of speech, fasciculations & twitching of muscles (particularly of tongue & eyelids, & generalized profound weakness. 7. Mental confusion, disorientation & drowsiness. /Parathion/

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
- No data available.

12.2 Persistence and degradability
- No data available.

12.3 Bioaccumulative potential
- No data available.

12.4 Mobility in soil
- No data available.

12.5 Results of PBT and vPvB assessment
- No data available.

12.6 Endocrine disrupting properties
- No data available.

12.7 Other adverse effects
- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.
- Incineration or disposal via a licensed waste contractor may be appropriate.

Contaminated packaging:
- Dispose of as hazardous waste in accordance with applicable regulations.
- Empty containers may retain product residues.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number
- Not available.

14.2 UN proper shipping name
- Not available.

14.3 Transport hazard class(es)
- Not available.

14.4 Packing group
- Not available.

14.5 Environmental hazards
- Not available.

14.6 Special precautions for user
- Handle containers carefully to prevent leaks/spills.
- Keep container tightly closed.

14.7 Maritime transport in bulk according to IMO instruments
- Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulatory status information not available.
- This product is intended for laboratory/research use.

15.2 Chemical safety assessment
- No data available.

SECTION 16: Other information

SECTION 16: Other information

Product identification:
- Product name: Crotoxyphos
- CAS No.: 7700-17-6
- Catalog No.: CS-EJ-00051
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Revision information:
- No data available.

Disclaimer:
- The information provided is believed to be accurate based on available data, but no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.

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