

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

Catalogue Number	CS-T-30011
Product Name	Isopropyl Palmitate
CAS No.	142-91-6
Category	API
Synonyms	Crodamol IPP; Delyl; Delyl Prime.
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: Not available

Not available

Hazard Statement(s)

Code	Statement
Not available	Not available

Precautionary Statement(s)

Code	Statement
Not available	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Isopropyl Palmitate

CAS Number : 142-91-6

Molecular Formula : C \blacksquare H \blacksquare O \blacksquare

Molecular Weight : 298.50

Parent Chemical : Isopropyl Palmitate

Synonyms : Crodamol IPP;

Delyl;

Delyl Prime.

Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or develop.
- Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
- Skin contact: Wash with soap and water. Get medical attention if irritation develops.
- 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. Seek medical attention if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

- Not 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: Use extinguishing measures appropriate to surrounding fire (e.g., water spray, alcohol-resistant foam, dry chemical, carbon dioxide).
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

- Combustion may produce carbon oxides.
- Other hazardous decomposition products: Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus and full protective gear.
- Cool containers with water spray if exposed to fire.
- Avoid inhalation of combustion products.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid contact with skin and eyes.
- Provide adequate ventilation.
- Use appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions

- Avoid release to the environment. Prevent entry into drains, surface waters, or soil.

6.3 Methods and material for containment and cleaning up

- Contain spill. Absorb with inert absorbent material.
- Collect into suitable, labeled containers for disposal.
- Clean spill area with appropriate cleaning methods; avoid creating slippery surfaces.

6.4 Reference to other sections

- See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin, eyes, and clothing.
- Use with adequate ventilation.
- Practice good industrial hygiene; wash hands after handling.
- Keep containers tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed.
- Protect from physical damage.
- Incompatible materials: Not available.

7.3 Specific end use(s)

- Not available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls

- Engineering controls: Provide adequate general and/or local exhaust ventilation to control airborne levels.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles as appropriate.

- Skin protection: Protective gloves. Wear protective clothing as needed to prevent skin contact.
- Respiratory protection: If ventilation is inadequate or aerosol/mist may be generated, use appropriate respiratory protection.
- Hygiene measures: Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.
- Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	Colourless liquid
IR spectrum	No data available
pH	No data available
Solubility	In chloroform

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

Property	Value
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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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

- Not available.

10.5 Incompatible materials

- Not available.

10.6 Hazardous decomposition products

- Carbon oxides under fire conditions. Other decomposition products: Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: /HUMAN EXPOSURE STUDIES/ A phototoxicity study of a bath oil formulation containing 45.6% isopropyl palmitate was conducted on 10 normal adult subjects of unreported age, sex, and color. Applications of 5 uL/sq cm of the undiluted test material were made under occlusive patches, and the application sites were irradiated with a Xenon Solar Simulator (25-30 mW/sq cm) after six and 24 hours of contact. No instances of phototoxicity were reported. It was concluded that this formulation is "unlikely to present a risk of phototoxicity under conditions of normal intended use." For more Human Toxicity Excerpts (Complete) data for Isopropyl palmitate (8 total), please visit the HSDB record page.

- Skin corrosion/irritation: /LABORATORY ANIMALS: Acute Exposure/ The Draize primary skin irritation technique was used to evaluate isopropyl palmitate in five separate studies. In each, single doses of 0.5 g or 0.5 mL of the undiluted ingredient were applied under occlusive patches on clipped areas of intact and abraded skin of six albino rabbits. Cutaneous reactions were graded at 24 and 72 hours, and the Primary Irritation Index (PII)s were calculated by averaging the means of the 24- and 72 hour readings. The PIIs in the first four studies were determined to be 0.0, 0.38, 0.6, and 0.92. In the fifth study, each of four samples of isopropyl palmitate was assayed twice, and the eight resultant PIIs ranged from 0.25 (nonirritating) to 1.25 (slightly irritating).

- Serious eye damage/eye irritation: /LABORATORY ANIMALS: Acute Exposure/ For one hour, ten adult male and female albino rats were exposed to an aerosol of isopropyl palmitate in an inhalation chamber. The spray was directed away from the nasal and ocular areas and circulated throughout the chamber for the duration of the exposure. The maximum aerosolization of 200 mg/L achieved prior to the test was maintained throughout the exposure period. The test animal did not exhibit any toxic symptoms during the 14-day post-exposure observation period; nor did gross autopsies produce any significant findings. The acute toxic dose by inhalation was shown to be

greater than 200 mg/L of air. /LABORATORY ANIMALS: Acute Exposure/ The Draize rabbit eye irritation procedure was used to evaluate isopropyl palmitate in five separate studies. In each, 0.1 mL of undiluted isopropyl palmitate was instilled into the conjunctival sacs of adult albino rabbits. One eye was treated in each animal, while the other remained untreated and served as a control. Irritative effects were scored at 24, 48, and 72 hours according to the method of Draize. In one study, nine rabbits were divided into three groups of three animals each. While the treated eyes of group one remained unwashed, those of the other two groups were washed with 20 mL of lukewarm water, one at two seconds the other at four seconds after the test material had been instilled. There were no signs of irritation, and all scores were 0.0. In another study, the eyes of six rabbits remained unwashed after treatment and the Draize Ocular Irritation Index (OII) was 0.0. The six rabbits tested in the third study gave an OII of 0.3 out of a possible total of 110 at 24 hours. At the 48 and 72-hour gradings, all scores were 0.0. In the fourth study, six rabbits were used, and OIIs of 2.33, 0.67, and 0.33 were obtained at 24, 48, and 72 hours, respectively. The fifth study was conducted on four samples of isopropyl palmitate. The resultant OIIs ranged from 3.33 to 6.50 at 48 hours. (An OII of less than 10 on the Draize scale indicates that the compound does not cause any significant injury to the rabbit eye mucous membrane.

- Respiratory or skin sensitization: /HUMAN EXPOSURE STUDIES/ Kligman's modified maximization procedure was used on 25 subjects to test an undiluted sample of a bath oil formulation containing 45.6% isopropyl palmitate. All patch tests were negative, and it was concluded that, 'based on the maximization scale, the material would be considered the lowest grade, weak potential sensitizer and would be unlikely to present a risk of contact sensitization under conditions of normal intended use.' /HUMAN EXPOSURE STUDIES/ One hundred two men and women of unspecified race participated in a modified Draize-Shelanski repeated insult patch test which was used to ascertain the irritation and sensitization potential of isopropyl palmitate. Approximately 0.1 mL of undiluted isopropyl Palmitate was dispersed onto an absorbent non-woven cotton swatch, 20 x 20 mm, which was then applied to the upper back under an adhesive bandage. The patches were applied three times a week for three weeks and were left in place for 24 hours at each application. Reactions were scored on a 0-4 irritancy scale 24 hours after patch removal. Seventeen days after the last induction patch was removed, a 24-hour challenge application of the test material was made; 24 and 48 hours following the removal of these applications, the challenge reactions were graded. Barely perceptible erythema was noted in three subjects after the second induction insult. All other scores in the induction and challenge periods were 0.0, and it was concluded that isopropyl palmitate did not demonstrate potential for inducing allergic sensitization.

- 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

- /LABORATORY ANIMALS: Acute Exposure/ For one hour, ten adult male and female albino rats were exposed to an aerosol of isopropyl palmitate in an inhalation chamber. The spray was directed away from the nasal and ocular areas and circulated throughout the chamber for the duration of the exposure. The maximum aerosolization of 200 mg/L achieved prior to the test was maintained throughout the exposure period. The test animal did not exhibit any toxic symptoms during the 14-day post-exposure observation period; nor did gross autopsies produce any significant findings. The acute toxic dose by inhalation was shown to be greater than 200 mg/L of air.

Symptoms related to the physical, chemical and toxicological characteristics

- /LABORATORY ANIMALS: Acute Exposure/ For one hour, ten adult male and female albino rats were exposed to an aerosol of isopropyl palmitate in an inhalation chamber. The spray was directed away from the nasal and ocular

areas and circulated throughout the chamber for the duration of the exposure. The maximum aerosolization of 200 mg/L achieved prior to the test was maintained throughout the exposure period. The test animal did not exhibit any toxic symptoms during the 14-day post-exposure observation period; nor did gross autopsies produce any significant findings. The acute toxic dose by inhalation was shown to be greater than 200 mg/L of air.

SECTION 12: Ecological information

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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

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- Do not discharge to drains or the environment.

- Contaminated packaging: Dispose of as unused product unless cleaned appropriately.

- Waste codes: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.

- UN proper shipping name: Not available.

- Transport hazard class(es): Not available.

- Packing group: Not available.

- Environmental hazards: Not available.

- Special precautions for user: Not available.

- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulatory listings (e.g., GHS/CLP/OSHA/TSCA/REACH/DSL/EINECS/ENCS/IECSC): Not available.

15.2 Chemical safety assessment

- Not available.

SECTION 16: Other information

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- Product name: Isopropyl Palmitate

- CAS No.: 142-91-6

- Catalog No.: CS-T-30011

- Synonyms: Crodamol IPP; Delyl; Delyl Prime.

- Supplier: Clearsynth Labs Ltd., Mumbai, India

- Emergency phone: +91-22-245045900

Disclaimer

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

Revision information

- Revision date: Not available.

- Version: Not available.

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