



MEDICAL ISOTOPES, Inc.

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SAFETY DATA SHEET

SECTION 1. Identification

Product:

Product Name: Retinol 19,19,19,20,20,20-d₆
Catalog number: D108637

Supplier:

Medical Isotopes, Inc.
100 Bridge Street
Pelham, NH 03076 USA
Tel: +1-603-635-2255 Fax: +1-603-635-2448
Email: info@medicalisotopes.com

Suitability:

For laboratory use only.

Emergency Contact Information:

Call Infotrac 24/7
DOMESTIC NORTH AMERICA 1-800-535-5053 (United States, Canada, Mexico)
INTERNATIONAL, CALL 1-352-323-3500

SECTION 2. Hazard(s) identification

Hazard classification:

Eye irritation (Category 2A), H319
Skin sensitization (Category 1), H317
Reproductive toxicity (Category 1B), H360
Long-term (chronic) aquatic hazard (Category 4), H413

Signal Word:

Danger

Hazard Statements:

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.
H413 May cause long lasting harmful effects to aquatic life.

Pictogram:



Precautionary Statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards:

None



SECTION 3. Composition/Information on Ingredients

Chemical name:

Retinol 19,19,19,20,20,20-d₆

Synonyms:

N/A

CAS number:

2483831-77-0

Impurities/Additives:

N/A

SECTION 4. FIRST AID MEASURES

Skin Contact: Wash with soap and water for several minutes. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: Remove from exposure and move to fresh air immediately. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products: Carbon oxides.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Make sure to wear appropriate protective equipment as listed in section 8. Avoid breathing dust, vapors, or mists.

Spill Clean-up Methods: Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with a non-combustible material (e.g., sand, earth, diatomaceous earth), sweep up, and place into a suitable container for disposal. Avoid breathing the resulting dust.

SECTION 7. HANDLING & STORAGE

Usage/Handling Precautions: Make sure to wear appropriate PPE as listed in section 8. Avoid contact with skin and eyes.

Storage Conditions: Keep tightly closed at -20 °C in freezer, under inert atmosphere. Light sensitive. Hygroscopic.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Use fume hood if available.

Personal Protective Equipment

Eyes: Always wear safety glasses when working with chemicals. Wear chemical goggles when working with liquids.

Skin: Wear protective gloves and a lab coat to prevent skin exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow oil

Odor: N/A

pH: N/A

Melting Point: 61 – 63 °C

Water Solubility (%): N/A

Flash Point (°C): N/A

Vapor pressure: N/A

Autoignition Temperature (°C): N/A

Flammability Limits in Air (% by Vol.): N/A

SECTION 10. STABILITY & REACTIVITY

Reactivity: N/A

Chemical Stability: Stable under recommended storage conditions

Conditions to Avoid: Strong oxidizing agents.



SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation: N/A
Ingestion: LD50 Oral - Rat - male and female - 9,560 mg/kg
Skin and eye contact: N/A
Other: N/A

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish: static test LC50 - Danio rerio (zebra fish) - 316.23 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Toxicity to algae: static test ErC50 - Desmodesmus subspicatus (green algae) - 152.94 mg/l - 72 h
Toxicity to bacteria: static test EC50 - activated sludge - > 1,000 mg/l - 3 h

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Via licensed disposal company. Dispose of according to federal, state/province and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods.

SECTION 15. REGULATORY INFORMATION

N/A

SECTION 16. OTHER INFORMATION

Preparation information: Last revised on: 08/16/2022

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