Inhalation Exposure
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)
Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill
Evacuate area. Shut off all sources of ignition.

Procedure(s) of Personal Precaution(s)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

Methods for Cleaning Up
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Environmental Precaution(s)
Do not allow material to enter drains or water courses. Avoid contaminating sewers and waterways with this material.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe dust. Do not get in eyes, on skin, or clothing. Avoid prolonged or repeated exposure.
Storage
Suitable
Keep tightly closed.

Special Requirements
Light sensitive.

Section 8 - Exposure Controls / PPE

Engineering Controls
Use only in a chemical fume hood. Safety shower and eye bath.

Personal Protective Equipment
Respiratory
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particulate type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

General Hygiene Measures
Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
Physical State
Solid

Molecular Weight: 314.47 AMU

pH
N/A

BP/BP Range
N/A

MP/MP Range
126 °C

Freezing Point
N/A

Vapor Pressure
N/A

Vapor Density
N/A

Saturated Vapor Conc.
N/A

SG/Density
N/A

Bulk Density
N/A

Odor Threshold
N/A

Vocatlr%
N/A

VOC Content
N/A

Water Content
N/A

Solvent Content
N/A

Evaporation Rate
N/A

Viscosity
N/A

Partition Coefficient
N/A

Decomposition Temp.
N/A

Flash Point °F
N/A

Flash Point °C
N/A

Explosion Limits
N/A

Flammability
N/A

Autoignition Temp
N/A

Optical Rotation
Degree of Rotation:
+230 - +190 (+/-4)

Solvent: EtOH H10 g/l

Section 10 - Stability and Reactivity

Stability
Stable

Conditions of Instability
Light sensitive.

Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
May be harmful if swallowed.

Sensitization
Sensitization
Causes photo sensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburn like responses to edematous, vesiculated lesions, or bullae

Target Organ(s) or System(s)
Female reproductive system. Male reproductive system. Central nervous system. Liver.

Signs and Symptoms of Exposure
Causes anabolic and androgenic effects. Exposure can cause liver disturbances, jaundice, nausea, vomiting, chills, diarrhea, abdominal fullness, excitement, insomnia, confusion, acne, blood lipid changes, increased serum cholesterol, retention of sodium, chloride, water, potassium, phosphates, calcium and nitrogen, edema, increased vascularility of the skin, and growth of the bones. In women, exposure can result in the suppression of ovarian activity and menstruation. Continued exposure can produce hermaphroditism, hoarseness or deepening of the voice, and atrophy of the breasts and endometrial tissue. In men, exposure may suppress spermatogenesis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: TW0175000

Toxicity Data
Oral - Rat: 5,000 mg/kg (LD50)

Intraperitoneal - Rat: 327 MG/KG (LD50)

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Chronic Exposure - Carcinogen

Result: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Mouse - Subcutaneous: 40 MG/KG
Result: Tumorigenic/Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Mouse - Parenteral: 1299 MG/KG 76W C

Mouse - Implant: 1296 MG/KG 77W C
Result: Tumorigenic/Neoplastic by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

Dog - Intramuscular: 26643 MG/KG 4Y I
Result: Tumorigenic/Neoplastic tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Dog - Implant: 270 MG/KG 78W
Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors.

Mouse - Subcutaneous: 9500 MG/KG 19W I
Result: Tumorigenic/Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Mouse - Subcutaneous: 200 MG/KG 5W I
Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria. Blood: Leukemia

Mouse - Implant: 1300 MG/KG 78W I

Mouse - Implant: 2592 MG/KG 77W C
Result: Tumorigenic/Neoplastic by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

Mouse - Implant: 14 GM/KG 77W C
Result: Tumorigenic/Neoplastic by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

Mouse - Implant: 649 MG/KG 77W C
Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

Mouse - Implant: 216 MG/KG 77W C
Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

Mouse - Implant: 19 GM/KG 77W C
Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Increased incidence of tumors in susceptible strains.

IARC Carcinogen List

Rating Group 2B

NTP Carcinogen List

Anticipated to be a carcinogen.

Chronic Exposure - Teratogen

Species Dose Route of Application Exposure Time

Rat 4 MG/KG Subcutaneous (9D PREG)

Rat 30 MG/KG Intramuscular (1-6D PREG)

Rat 36300 UG/KG Parenteral (7-17D PREG)

Rat 69 UG/KG Parenteral (16-19D PREG)

Rat 18333 UG/KG Intramuscular (15-25D PREG)

Guinea Pig 86 MG/KG Subcutaneous (18-60D PREG)

Species Dose Cell Type Mutation Test

Human 5 UMC/L lymphocyte DNA inhibition

Human 100 UG/L kidney DNA inhibition

Human 100 UG/L kidney Cytogenetic analysis

Human 20 MG/L lymphocyte Sister chromatid exchange

Rat 100 MG/KG Oral Embryo Morphological transformation.

Rat 60 UG/L Oral Embryo Morphological transformation.

Mouse 1060 MG/KG Oral Embryo DNA damage

Mouse 200 MG/KG Subcutaneous Embryo DNA synthesis

Mouse 200 MG/KG Subcutaneous Embryo DNA inhibition

Mouse 1 MG/L Embryo Cytogenetic analysis

Hamster 30 MG/L Embryo DNA damage

Rabbit 120 UG/L Intravenous Embryo Cytogenetic analysis

Dog 100 UG/L Intradermal Cytogenetic analysis

Chronic Exposure - Reproductive Hazard

Species Dose Route of Application Exposure Time

Woman 200 MG/KG Oral (20D PREG)

Woman 120 MG/KG Oral (20D PREG)

Woman 100 MG/KG Oral (20D PREG)

Woman 120 MG/KG Oral (20D PREG)

Man 50 MG/KG Intramuscular (70D MALE)

Man 15 MG/KG Intramuscular (21D MALE)

Woman 32 MG/KG Parenteral (3W PRE)

Woman 210 MG/KG Intramuscular (3W PRE)

Woman 475 UG/KG Intravenous (1Y PRE)

Rat 25 MG/KG Oral (1D PRE)

Rat 9 MG/KG Oral (80 MALE)

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Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: Xn
Indication of Danger: Harmful.
Risk Statements: R: 40
Limited evidence of a carcinogenic effect.
Safety Statements: S: 36/37
Wear suitable protective clothing and gloves.

US Classification and Label Text
Indication of Danger: Harmful.
Risk Statements: Limited evidence of a carcinogenic effect.
Safety Statements: Wear suitable protective clothing and gloves.

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Section 16 - Other Information

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For R&D use only. Not for drug, household or other uses.

Warranty
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