

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Product Number 5-Fluorouracil, minimum 99% TLC

F6627

Sigma Chemical

Company

Rrand

Fax:

Sigma-Aldrich

800-325-5052

Address 3050 Spruce Street

City, State, Zip, Country Technical Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no 200-085-6

. А

Annex I Index Number

5'-FLUOROURACIL

51-21-8

Yes

49

Formula

Synonyms

C4H3FN2O

Adrucil, Arumel, Effluderm (free base), Efudex, 5-Fluoracil (German), 5-Fluor-2,4-dihydroxypyrimidin (Czech), Fluoroblastin, Fluoroplex, 5-Fluoropyrimidine-2,4-dione, 5-Fluoro-2,4-pyrimidinedione, 5-Fluoro-2,4-pyrimidinedione, 5-Fluoro-2,4-pyrimidinedion (Czech), 5-Fluorouracil, 5-Fluo

pyrimidindion (Czech), Fluorouracii, 5-Fluorouracii, 5-Fluoruracii (German), Fluracii, Fluril, FU, 5-FU, NSC-19893, 2,4(1H,3H)-Pyrimidinedione, 5-fluoro-, Queroplex, Ro 2-9757,

Timazin, U-8953, Ulup

Section 3 - Hazards Identification

Emergency Overview

Toxic (USA) Harmful (EU).

Harmful if swallowed.

Photosensitizer. Target organ(s): Heart. Bone marrow. Calif. Prop. 65 developmental hazard.

HMIS Rating Health: 3*

.....

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposur

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.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

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.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Mechanical exhaust required. 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 particle respirator type N99 (US) or type P2 (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.

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General Hygiene Measures

Appearance

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Physical State Color Solid White Molecular Weight 130.08 AMU N/A BP/BP Range N/A MP/MP Range 282 °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 Volatile% 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 Solubility Solvent: 50 mg/ml NH4OH 1 M Other Solvents: DMSO. N/A = not available

Section 10 - Stability and Reactivity

Stability Stable

Stable.

Materials to Avoid

Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen fluoride.

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Form

Fine crystals

Hazardous Polymerization 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

Harmful if swallowed.

Sensitization

Sensitization

Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunbumlike responses to edematous, vesiculated lesions, or bullae

Target Organ(s) or System(s)

Heart. Bone marrow. Immune system. Blood.

Signs and Symptoms of Exposure

May cause nausea, vomiting, anorexia, diarrhea, stomatitis, fever, malaise, weakness, headache, depression, skin rash, erythema, bone marrow depression, bleeding syndrome, and renal impairment. Deaths have occured.

RTECS Number: YR0350000

Toxicity Data

Oral - Rat: 230 mg/kg (LD50)

Intraperitoneal - Rat: 70 MG/KG (LD50)

Remarks: Gastrointestinal: Hypermotility, diarrhea.

Gastrointestinal:Nausea or vomiting

Subcutaneous - Rat: 217 MG/KG (LD50)

Intravenous - Rat: 245 MG/KG (LD50)

Remarks: Gastrointestinal: Hypermotility, diarrhea. Gastrointestinal: Nausea or vomiting.

Intramuscular - Rat: 240 MG/KG (LD50)

Parenteral - Rat: 500 MG/KG (LD50)

Rectal - Rat: 884 MG/KG (LD50)

Remarks: Gastrointestinal: Hypermotility, diarrhea.

Gastrointestinal:Other changes.

Oral - Mouse: 115 mg/kg (LD50)

Intraperitoneal - Mouse: 100 MG/KG (LD50)

Intraperitoneal - Mouse: 100 MG/KG (LD50)

Subcutaneous - Mouse: 169 MG/KG (LD50)

Intravenous - Mouse: 81 MG/KG (LD50)

Intracerebral - Mouse: 41600 UG/KG (LD50)

Remarks: Peripheral Nerve and Sensation: Sensory change involving peripheral nerve.

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Ptosis.

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other.

Oral - Dog: 30 mg/kg (LD50)

Remarks: Gastrointestinal: Nausea or vomiting.

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DNA damage

Oral - Rabbit: 18.9 mg/kg (LD50) Remarks: Behavioral: Muscle weakness. Gastrointestinal: Hypermotility, diarrhea. Nutritional and Gross Metabolic: Weight loss or decreased weight gain Intravenous - Guinea pig: 25 MG/KG (LD50) Remarks: Vascular BP elevation not charactertized in autonomic section. Irritation Data Skin - Human: 84 mg 3W Chronic Exposure - Carcinogen Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

Mouse - Intraperitoneal: 1500 MG/KG 50W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Blood:Tumors

IARC Carcinogen List

Rating Group 3

Chronic Exposure - Teratogen Route of Application Exposure Time Dose Species Intravenous (11-14W PREG) 240 MG/KG Woman Result: Specific Developmental Abnormalities: Musculoskeletal system (7-13D PREG) 35 MG/KG Oral Rat Result: Specific Developmental Abnormalities: Musculoskeletal system. (12D PREG) 30 MG/KG Intraperitoneal Rat Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue) Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Gastrointestinal system. (12D PREG) Intraperitoneal Rat 30 MG/KG Result: Specific Developmental Abnormalities: Homeostasis (14D PREG) 20 MG/KG Subcutaneous Rat Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus) (14D PREG) 30 MG/KG Subcutaneous Rat Result: Specific Developmental Abnormalities: Musculoskeletal system (7-17D PREG) Intravenous Rat 330 MG/KG Result: Specific Developmental Abnormalities: Musculoskeletal system (7-13D PREG) Oral 175 MG/KG Mouse Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus) Specific Developmental Abnormalities: Musculoskeletal system. (13D PREG) 50 MG/KG Intraperitoneal Mouse Result: Effects on Embryo or Fetus: Cytological changes (including somatic cell genetic material) (10D PREG) Intraperitoneal Mouse 20 MG/KG Result: Specific Developmental Abnormalities: Musculoskeletal system Specific Developmental Abnormalities: Craniofacial (including nose and tongue) (10D PREG) Intraperitoneal Mouse 10 MG/KG Result: Specific Developmental Abnormalities: Eye, ear Specific Developmental Abnormalities: Musculoskeletal system. 24 MG/KG Intramuscular (9D PREG) Hamster Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Craniofacial (including nose and tongue). (11D PREG) Intramuscular 56 MG/KG Result: Specific Developmental Abnormalities: Homeostasis

Chronic Exposure - Mutagen

Mutation test Cell Type Species Dose Result: Laboratory experiments have shown mutagenic effects

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Other cell types 13 MG/L Human Other cell types DNA damage 13 MG/L Human Other cell types DNA damage 1 MMOL/L Human DNA damage Other cell types Human 1 MMOL/L Other mutation test systems 6H Other cell types 5 UMOL/L Human 6Н Other cell types Other mutation test systems 5 UMOL/L Human DNA leukocyte 2600 NMOL/L Human DNA 2600 NMOL/L leukocyte Human Other mutation test systems Human 2600 NMOL/L leukocyte Other mutation test systems 2600 NMOL/L leukocyte Human Unscheduled DNA synthesis Other cell types 20 MG/L Human Unscheduled DNA synthesis Other cell types 20 MG/L Human Unscheduled DNA synthesis Other cell types 1 MMOL/L Human Other cell types Unscheduled DNA synthesis Human 1 MMOL/L Other cell types Other mutation test systems 1 MMOL/L Human Other mutation test systems Other cell types 1 MMOL/L Human DNA inhibition 200 MG/L Other cell types Human DNA inhibition 200 MG/L Other cell types Human Other cell types DNA inhibition 1 UMOL/L Human Other cell types DNA inhibition 1 UMOL/L Human Other cell types Other mutation test systems 1 UMOL/L Human Other cell types Other mutation test systems 1 UMOL/L Human DNA inhibition 1 MG/L ovary Human DNA inhibition ovary Human 1 MG/L Other mutation test systems Human 1 PPH Skin 1 PPH Skin Other mutation test systems Human Other cell types Other mutation test systems Human 1 MG/L Other mutation test systems Other cell types 1 MG/L Human HeLa cell Other mutation test systems 50 MG/I Human Other mutation test systems HeLa cell Human 50 MG/L Body fluid assay 7 MG/KG S. typhimurium Human S. typhimurium Body fluid assay 7 MG/KG Human lymphocyte Sister chromatid exchange 100 PMOL/L Human Sister chromatid exchange lymphocyte 100 PMOL/L Human Micronucleus test Rat 250 MG/KG Intraperitoneal 250 MG/KG Intraperitoneal Micronucleus test Rat Cytogenetic analysis 50 MG/KG Intraperitoneal Rat Cytogenetic analysis Intraperitoneal Rat 50 MG/KG Micronucleus test Mouse 12500 UG/KG Intraperitoneal Micronucleus test Mouse 12500 UG/KG Intraperitoneal 26018 UG/KG Intraperitoneal Micronucleus test Mouse Intraperitoneal Micronucleus test 26018 UG/KG Mouse Embryo Morphological transformation. 10 UMOL/L 24H Mouse 24H Embryo Morphological transformation. 10 UMOL/L Mouse Bone marrow DNA damage 20 UMOL/L Mouse 20 UMOL/L Bone marrow DNA damage Mouse Bone marrow Other mutation test systems 19 UMOL/L Mouse 19 UMOL/L Bone marrow Other mutation test systems Mouse 66 UMOL/L lymphocyte Other mutation test systems Mouse lymphocyte Other mutation test systems 66 UMOL/L Mouse Other mutation test systems Mouse 500 UMOL/KG Intraperitoneal 500 UMOL/KG Intraperitoneal Other mutation test systems Mouse Unscheduled DNA synthesis 40 MG/KG Intravenous Mouse Unscheduled DNA synthesis 40 MG/KG Intravenous Mouse Unscheduled DNA synthesis 40 MG/KG Oral Mouse

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Mouse	40 MG/KG	Oral		Upophadulad DNA quethagia
Mouse	40 MG/L	Olai	Ascites tumo	Unscheduled DNA synthesis Unscheduled DNA synthesis
Mouse	40 MG/L		Ascites tumo	
Mouse	40 MG/L		Ascites tumo	
Mouse	40 MG/L		Ascites turno	
Mouse	50 MG/KG	Intraperitoneal	Ascites turic	Unscheduled DNA synthesis
Mouse	50 MG/KG	Intraperitoneal		
		ппаретинеат	lautaa da	Unscheduled DNA synthesis
Mouse	3 MG/L		leukocyte	DNA inhibition
Mouse	3 MG/L		leukocyte	DNA inhibition
Mouse	100 MG/KG		leukocyte	DNA inhibition
Mouse	100 MG/KG		leukocyte	DNA inhibition
Mouse	55 UMOL/L		leukocyte	Other mutation test systems
Mouse	55 UMOL/L		leukocyte	Other mutation test systems
Mouse	500 UG/L		lymphocyte	DNA inhibition
Mouse	500 UG/L		lymphocyte	DNA inhibition
Mouse	50 MG/KG	Intraperitoneal		DNA inhibition
Mouse	50 MG/KG	Intraperitoneal		DNA inhibition
Mouse	40 MG/KG	Oral		Other mutation test systems
Mouse	40 MG/KG	Oral		Other mutation test systems
Mouse	100 NMOL/L		Embryo	DNA inhibition
Mouse	100 NMOL/L		Embryo	DNA inhibition
Mouse	1800 NMOL/L		Bone marrov	v DNA inhibition
Mouse -	1800 NMOL/L		Bone marrov	v DNA inhibition
Mouse	7500 UMOL/L		Ascites tumo	or DNA inhibition
Mouse	7500 UMOL/L		Ascites tumo	or DNA inhibition
Mouse	1 UG/L		Other cell typ	oes DNA inhibition
Mouse	1 UG/L		Other cell typ	oes DNA inhibition
Mouse	50 MG/KG	Oral		Cytogenetic analysis
Mouse	50 MG/KG	Oral		Cytogenetic analysis
Mouse	20 MG/KG	Intraperitoneal		Cytogenetic analysis
Mouse	20 MG/KG	Intraperitoneal		Cytogenetic analysis
Mouse	250 MG/KG		Ascites tumo	r Cytogenetic analysis
Mouse	250 MG/KG		Ascites tumo	r Cytogenetic analysis
Mouse	50 MG/KG	Intraperitoneal		sperm
Mouse	50 MG/KG	Intraperitoneal		sperm
Mouse	50 MG/KG	Intravenous		sperm
Mouse	50 MG/KG	Intravenous		sperm
Hamster	41 MG/KG	Intraperitoneal		Micronucleus test
Hamster	41 MG/KG	Intraperitoneal		Micronucleus test
Hamster	41 MG/KG	Intraperitoneal		Cytogenetic analysis
Hamster	41 MG/KG	Intraperitoneal		Cytogenetic analysis
Hamster	1900 UG/L	•	lung	Cytogenetic analysis
Hamster	1900 UG/L		lung	Cytogenetic analysis
Mammal	100 UMOL/L		Other cell type	F1
Mammal	100 UMOL/L		Other cell ty	
			medical garden garden er either Erming	Histidine reversion (Ames)
				(31135)
Chronic Expo	osure - Reproductive	Hazard		

Species 5 4 1 Dose Route of Application Exposure Time 150 MG/KG Woman Intravenous (20-31W PREG) Result: Effects on Newborn: Other neonatal measures or effects Woman 150 MG/KG (20-31W PREG) Intravenous Result: Effects on Newborn: Other neonatal measures or effects Rat 175 MG/KG Oral (7-13D PREG)

Result: Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

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Result: Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death. Rat 13500 UG/KG Intraneritoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death, Rat 15 MG/KG Intraperitoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetal death, Specific Developmental Abnormalities: Other developmental abnormalities. Rat 15 MG/KG Intraperitoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Other developmental abnormalities. Rat 20 MG/KG Intraperitoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Other developmental abnormalities. 245 MG/KG Oral (7-13D PREG) Mouse Result: Effects on Fertility: Litter size (e.g., # fetuses per litter; measured before birth), Effects on Embryo or Fetus; Fetal Rat Intraperitoneal (9D PREG) Result, Effects on Fertility, Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Other developmental abnormalities. Mouse 245 MG/KG (7-13D PREG) Result: Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetal death Mouse Intraperitoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Other developmental abnormalities. Mouse 30 MG/KG Intraperitoneal (9D PREG) Result: Effects on Fertility: Abortion. 20 MG/KG Mouse Intraperitoneal (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Other developmental abnormalities (12D PREG) Mouse 30 MG/KG Intraperitoneal Result: Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain). Mouse 30 MG/KG Intraperitoneal (9D PREG) Result: Effects on Fertility: Abortion. 30 MG/KG (12D PREG) Mouse Intraperitoneal Result: Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain). Mouse 67 MG/KG Intravenous (1D MALE) Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). 67 MG/KG (1D MALE) Intravenous Result: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). 28 MG/KG Intramuscular (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Musculoskeletal system. 20 MG/KG Hamster Intramuscular (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). 28 MG/KG Intramuscular (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Musculoskeletal system. 20 MG/KG Intramuscular (9D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants)

(7-13D PREG)

Section 12 - Ecological Information

175 MG/KG

Oral

Rat

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.

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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: Toxic solids, organic, n.o.s.

UN#: 2811 Class: 6.1

Packing Group: Packing Group III

Hazard Label: Toxic substances.

PIH: Not PIH

IATA

Proper Shipping Name: Toxic solid, organic, n.o.s.

IATA UN Number: 2811 Hazard Class: 6.1 Packing Group: III

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed.

US Classification and Label Text

Indication of Danger

Toxic (USA) Harmful (EU).

Risk Statements

Harmful if swallowed.

US Statements

Photosensitizer. Target organ(s): Heart. Bone marrow. Calif. Prop. 65 developmental hazard.

United States Regulatory Information

SARA Listed: Yes Deminimis: 1 %

Notes: This product is subject to SARA section 313 reporting requirements.

R: 22

TSCA Inventory Item: Yes

United States - State Regulatory Information

California Prop - 65

This product is or contains chemical(s) known to the state of California to cause developmental toxicity.

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No NDSL: Yes

Section 16 - Other Information

Disclaimer

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

Warranty

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate

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