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Product identifier	
Trade name: <u>Raloxifene</u>	
Synonym	
Article number: 41845 CAS Number:	
84449-90-1	
EC number:	
686-786-1 Application of the substance / the mi	ixture
	or human or veterinary diagnostic or therapeutic use.
Details of the supplier of the safety d	lata sheet
Manufacturer/Supplier: Cayman Chemical Co.	
1180 E. Ellsworth Rd.	
Ann Arbor, MI 48108	
USA	
Information department: Product safe	ety department
Emergency telephone number: During normal opening times: +1 (734)	971-3335
US/CANADA: 800-424-9300	
Outside US/CANADA: 703-741-5970	
Hazard(s) identification	
mazaru(s) iueritirication	
	ixture
Classification of the substance or mi	
Classification of the substance or mi	
Classification of the substance or mi GHS06 Skull and crossbones Acute Toxicity - Dermal 3	
Classification of the substance or mi	
Classification of the substance or mi GHS06 Skull and crossbones Acute Toxicity - Dermal 3	
Classification of the substance or mi GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard	H311 Toxic in contact with skin.

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GHS0	7	
Acute Toxicity -	Oral 4	H302 Harmful if swallowed.
Acute Toxicity -		H332 Harmful if inhaled.
Skin Irritation 2		H315 Causes skin irritation.
Eye Irritation 2A		H319 Causes serious eye irritation.
Specific Target	Organ Toxicity - Single Exposure 3	3 H335 May cause respiratory irritation.
Label elements		
GHS label elem		
		to the Globally Harmonized System (GHS).
· Hazard pictogr		to the Globally Harmonized System (GHS).
GHS06 GHS0	07 GHS08 GHS09	
0		
· Signal word Da	anger	
· Hazard stateme	•	
H302+H332 Hai	rmful if swallowed or if inhaled.	
H311 To>	kic in contact with skin.	
H315 Ca	uses skin irritation.	
H319 Ca	uses serious eye irritation.	
	y damage fertility or the unborn ch	ild.
	y cause respiratory irritation.	
	kic to aquatic life with long lasting e	effects.
 Precautionary s 		
P201	Obtain special instructions before	
P202		ecautions have been read and understood.
P261	Avoid breathing dust/fume/gas/	
P264	Wash thoroughly after handling	
P270	Do not eat, drink or smoke whe	
P271	Use only outdoors or in a well-v	
P273	Avoid release to the environme	
P280		ve clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison cent	er/doctor if you feel unwell.
P330	Rinse mouth.	· · · · · ·
P302+P352	If on skin: Wash with plenty of y	
P304+P340		o fresh air and keep comfortable for breathing.
F303+F331+F3		water for several minutes. Remove contact lenses, if
P308+P313	present and easy to do. Continu IF exposed or concerned: Get r	
P321	Specific treatment (see on this	
P361+P364		ninated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get me	
P337+P313	If eye irritation persists: Get me	
P391	Collect spillage.	
P403+P233	Store in a well-ventilated place.	Keep container tightly closed
P405	Store locked up.	
P501		n accordance with local/regional/national/international
	regulations.	
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- Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description
- 84449-90-1 Raloxifene
- · Identification number(s)
- EC number: 686-786-1

4 First-aid measures

· Description of first aid measures

General information:

- Immediately remove any clothing soiled by the product.
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required. • Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling Thorough dedusting.
 Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.

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- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties	
Appearance:	Calid	
Form: Color:	Solid	
Odor:	According to product specification Characteristic	
Structural Formula	C28H27NO4S	
Molecular Weight Odor threshold:	473.6 g/mol Not determined.	
ouor infestiola.	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	

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· Flammability:	Product is not flammable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
• Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	TDLO	9 ml/kg/3D intermittent (rat)

Subcutaneous TDLO

14 mg/kg/2W intermittent (rat)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

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- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (Raloxifene)
IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Raloxifene)
ΙΑΤΑ	Toxic solid, organic, n.o.s. (Raloxifene)

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DOT Class 6.1 Toxic substances Label 6.1 MDG Class 6.1 Toxic substances Label 6.1 INDG Class 6.1 Toxic substances Label 6.1 IATA Class 6.1 Toxic substances Class 6.1 Toxic substances Class 6.1 Toxic substances Class 6.1 IATA Comparing forup DOT, IMDG, IATA III Environmental hazards: Environmental ha	Transport bazard alass(as)	(Contd. from page
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Quantity limitationsOn passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kgIMDG5 kgLimited quantities (LQ)5 kgExcepted quantities (EQ)Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 gIATA Remarks:When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.	Transport/Additional information:	
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IMDG 5 kg Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g IATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.	Quantity limitations	
Limited quantities (LQ)5 kgExcepted quantities (EQ)Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 gIATA Remarks:When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.		
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Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 gIATA Remarks:When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.		
Remarks:When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.		Maximum net quantity per inner packaging: 30 g
or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.		
	Remarks:	or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim
		(Contd. on page

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	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (RALOXIFENE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

- · Contact: -· Date of preparation / last revision 08/26/2024 / -· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

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TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Dermal 3: Acute toxicity – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxic to Reproduction 1A: Reproductive toxicity – Category 1A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2