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| **SECTION 1. IDENTIFICATION:** Trade name: Bexarotene Product Number: [B-2422](http://www.lclabs.com/PRODFILE/A-C/B-2422.php4) Manufacturer/Supplier: LC Laboratories 165 New Boston Street Woburn, MA 01801 USA 1-781-937-0777 Fax: 1-781-938-5420 |
| **SECTION 2. HAZARD(S) IDENTIFICATION:** Hazard Description: Toxic if swallowed Irritating to the skin and eyes; may cause respiratory irritation  Synthetic retinoid analog that may cause abnormal fetal development Teratogen in pregnant laboratory animals Skin exposure may exacerbate the deleterious effects of sunlight, for example, increased risk of sunburn Ingestion may cause effects similar to hypervitaminosis A including headache, nausea, vomiting,  lip inflammation, mucous membrane dryness, joint pain, scaly skin, and hyperlipidemia Target organs: Skin, respiratory, reproductive, and gastrointestinal systems Signal Word: Danger **GHS Hazard Statements:** H301 - Toxic if swallowed H313 - May be harmful in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H333 - May be harmful if inhaled H335 - May cause respiratory irritation H361d - Suspected of damaging the unborn child H372 - Causes damage to organs through prolonged or repeated exposure: skin, respiratory,  reproductive, and gastrointestinal systems **GHS Precautionary Statements:** P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe dust/fume/gas/mist/vapours/spray P264 - Wash any exposed skin thoroughly after handling P280 - Wear protective gloves/eye protection/face protection P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P330 - Rinse mouth P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a  position comfortable for breathing 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 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor/physician P332 + P313 - If skin irritation occurs: Get medical advice/attention P337 + P313 - If eye irritation persists: Get medical advice/attention P362 + P364 - Take off contaminated clothing and wash it before reuse P402 + P404 - Store in a dry place. Store in a closed container P501 - Dispose of contents/container in accordance with local/regional/national/international regulations http://71.245.157.243/SDS/43.pnghttp://71.245.157.243/SDS/46.pnghttp://71.245.157.243/SDS/48.png |
| **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:** Chemical Name: 4-[1-(3,5,5,8,8-pentamethyl-6,7-dihydronaphthalen-2-yl)ethenyl]benzoic acid Synonyms: Targretin, Targretyn, Targrexin,  LGD-1069, LG 1069, LG100069, SR-11247, HSDB 7453, D03106, DB00307 Hazardous Ingredient: Bexarotene CAS Registry Number: 153559-49-0 Molecular Weight: 348.48 Molecular Formula: C24H28O2 |
| **SECTION 4. FIRST-AID MEASURES:** After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen;  if breathing stops, give artificial respiration After skin contact: flush with copious amounts of water; remove contaminated clothing  and shoes; call a physician After eye contact: check for and remove contact lenses; flush with copious amounts of water;  assure adequate flushing by separating the eyelids with fingers; call a physician After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician |
| **SECTION 5. FIRE-FIGHTING MEASURES:** Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder, or foam Protective equipment: wear self-contained breathing apparatus and protective clothing to  prevent contact with skin and eyes Unusual fire hazard: may emit toxic fumes under fire conditions such as carbon monoxide, etc. |
| **SECTION 6. ACCIDENTAL RELEASE MEASURES:** Person-related safety precautions: cordon off area of spill; wear self-contained  breathing apparatus, protective clothing and heavy rubber gloves Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding  material (diatomite, universal binders); decontaminate surfaces and equipment by  scrubbing with alcohol; dispose of contaminated material according to Section 13 |
| **SECTION 7. HANDLING AND STORAGE:** Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant Storage: store solid and solutions at -20 ºC |
| **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:** Personal protective equipment as follows: Breathing equipment: NIOSH/MSHA-approved respirator Protection of hands: chemical-resistant rubber gloves Eye protection: chemical safety goggles |
| **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:** Form: crystalline solid; granular or powder Color: white Odor: none Melting point/Melting range: 215-224 ºC Danger of explosion: none Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in  plain water is estimated to be about 10-50 µM; buffers, serum, or other additives may  increase or decrease the aqueous solubility Solvent content: none Organic solvents: soluble in DMSO at 65 mg/mL; soluble in ethanol at 10 mg/mL with warming |
| **SECTION 10. STABILITY AND REACTIVITY:** Stability: stable if stored as directed; avoid strong oxidizing agents Thermal decomposition / conditions to be avoided: protect from light and heat Dangerous products of decomposition: thermal decomposition may produce toxic gases  such as carbon monoxide, carbon dioxide, and nitrogen oxides |
| **SECTION 11. TOXICOLOGICAL INFORMATION:** RTECS #: DH6834830 Acute toxicity: oral toxicity (LD50): >1500 mg/kg (rat) - toxicity data from the Apicore  MSDS dated July 11, 2011 for Bexarotene; oral toxicity (TDLo): 4.2-72.6 mg/kg (rat),  2800-4200 mg/kg (mouse) Primary irritant effect: On the skin: causes skin irritation; exposure may exacerbate the deleterious effects of sunlight On the eye: causes eye irritation Inhalation: causes irritation of mucous membranes and upper respiratory tract; may be  harmful if inhaled Ingestion: harmful if swallowed; may cause effects similar to hypervitaminosis A including  headache, nausea, vomiting, lip inflammation, mucous membrane dryness,  joint pain, scaly skin, and hyperlipidemia |
| **SECTION 12. ECOLOGICAL INFORMATION:** General notes: no data available Treat as potentially toxic if released into the environment |
| **SECTION 13. DISPOSAL CONSIDERATIONS:** Dispose of in accordance with prevailing country, federal, state and local 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 class: Proper shipping name: none Non-Hazardous for transport: this substance is considered to be non-hazardous for transport |
| **SECTION 15. REGULATORY INFORMATION:** Code letter and hazard designation of product: Xn: Harmful EU Risk And Safety phrases: S22: Do not breathe dust S24/25: Avoid contact with skin and eyes S36/37: Wear suitable protective clothing and gloves R22: Harmful if swallowed R36/37/38: Irritating to eyes, respiratory system, and skin |
| **SECTION 16. OTHER INFORMATION:** The above information is believed to be correct based on our present knowledge  but does not purport to be complete. For research use only by trained personnel.  The burden of safe use of this material rests entirely with the user. LC Laboratories  disclaims all liability Revision Date:  February 1, 2015 |