

Indomethacin: sc-200503



The Power to Question

MATERIAL SAFETY DATA SHEET

Section I. Chemical Product and Company Identification				
Chemical Name	Indomethacin	Supplier	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800	
Catalog Number	sc-200503			
CAS Number	53-86-1			
Chemical Formula	C ₁₉ H ₁₆ ClNO ₄	Emergency	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112	

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Indomethacin	53-86-1	Min. 98.0 (HPLC,T)	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen. This compound is classified as a possible mutagen. There is no acceptable exposure limit for a mutagen.	Rat LD ₅₀ (oral) 2.42 mg/kg Rabbit LD ₅₀ (oral) 135 mg/kg Rat LD ₅₀ (intraperitoneal) 13 mg/kg


Section III. Hazards Identification	
Acute Health Effects	Highly toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic Effects. Rat TDLo Oral 644 mg/kg/92 weeks continuous TOXIC Effects : Tumorigenic - Neoplastic by RTECS criteria. Skin and Appendages - Tumors DEVELOPMENTAL TOXICITY Reproductive Effects. Woman TDLo Multiple 22 mg/kg female 33 weeks of pregnancy TOXIC Effects : Specific Developmental Abnormalities - Central Nervous System Effects on Newborn - Apgar score (human only) Woman TDLo Oral 525 mg/kg, female 16-32 weeks of pregnancy TOXIC Effects : Maternal Effects - Parturition Maternal Effects - Other effects Specific Developmental Abnormalities - Urogenital system Rat TDLo Oral 325 mg/kg, male 65 day prior to mating TOXIC Effects : Paternal Effects - Spermatogenesis Paternal Effects - Testes, epididymis, sperm duct

Section IV. First Aid Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Section V. Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), halogenated compounds. WARNING: Highly toxic HCl gas is produced during combustion.		
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.		

Section VI. Accidental Release Measures	
Spill Cleanup Instructions	Highly toxic material. Possibly carcinogenic material. Possibly mutagenic material. Teratogenic material. Light sensitive material. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage	
Handling and Storage Information	TOXIC. POSSIBLE CARCINOGEN. POSSIBLE MUTAGEN. TERATOGEN. LIGHT SENSITIVE. Keep locked up.. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively.

Section VIII. Exposure Controls/Personal Protection	
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. 
Exposure Limits	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen. This compound is classified as a possible mutagen. There is no acceptable exposure limit for a mutagen.


Section IX. Physical and Chemical Properties			
Physical state @ 20°C	Solid. (White ~ light yellow powder.)	Solubility	Soluble in methanol, ethanol, ether, acetone, chloroform. Insoluble in water.
Specific Gravity	Not available.		
Molecular Weight	357.79	Partition Coefficient	Log P _{ow} : 4.27
Boiling Point	Not available.	Vapor Pressure	Not applicable.
Melting Point	160°C (320°F)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

Section X. Stability and Reactivity Data	
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Avoid excessive heat and light.
Incompatibilities	Reactive with strong alkalis (bases).

Section XI. Toxicological Information	
RTECS Number	NL3500000
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	Rat LD ₅₀ (oral) 2.42 mg/kg Rabbit LD ₅₀ (oral) 135 mg/kg Rat LD ₅₀ (intraperitoneal) 13 mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic Effects. Rat TDLo Oral 644 mg/kg/92 weeks continuous TOXIC Effects: Tumorigenic - Neoplastic by RTECS criteria. Skin and Appendages - Tumors DEVELOPMENTAL TOXICITY Reproductive Effects. Woman TDLo Multiple 22 mg/kg female 33 weeks of pregnancy TOXIC Effects: Specific Developmental Abnormalities - Central Nervous System Effects on Newborn - Apgar score (human only) Woman TDLo Oral 525 mg/kg, female 16-32 weeks of pregnancy TOXIC Effects: Maternal Effects - Parturition Maternal Effects - Other effects Specific Developmental Abnormalities - Urogenital system Rat TDLo Oral 325 mg/kg, male 65 day prior to mating TOXIC Effects: Paternal Effects - Spermatogenesis Paternal Effects - Testes, epididymis, sperm duct
Acute Toxic Effects	Highly toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Section XII. Ecological Information	
Ecotoxicity	Not available.
Environmental Fate	Not available.

Section XIII. Disposal Considerations	
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information	
DOT Classification	DOT Class 6.1: Toxic material.
PIN Number	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Packing Group (PG)	I
DOT Pictograms	

Section XV. Other Regulatory Information and Pictograms	
TSCA Chemical Inventory (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). On DSL
EINECS Number (EEC)	200-186-5
EEC Risk Statements	R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed.
Japanese Regulatory Data	ENCS No. 9-361

Section XVI. Other Information

Notice to Reader:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

01/31/2011