

Safety Data Sheet

INDOMETHACIN

EFFECTIVE DATE: 2017-01-17

1 Product and Company Identification

- 1.1 **Product Name:** Indomethacin
- 1.2 **Product Identifier:** 2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid
- 1.3 **Catalog Number:** 73942
- 1.4 **Product Use:** Laboratory Chemical
- 1.5 **Manufacturer/Supplier:** STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.6 **In Case of Emergency Call:** 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

- Acute Toxicity - Oral, Category 1
- Eye Damage/Eye Irritation, Category 1
- Specific Target Organ Toxicity (Single Exposure), Category 3
- Carcinogenicity, Category 2
- Reproductive Toxicity, Category 1B
- Specific Target Organ Toxicity (Repeated Exposure), Category 2
- Hazardous to the Aquatic Environment - Chronic Hazard, Category 4

2.2 Label elements

Pictogram



Signal word Danger

Hazard statement(s)

- H300 Fatal if swallowed.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure
- H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

- 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 {hands} thoroughly after handling.
- P273 Avoid release to the environment.

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P280	Wear {protective gloves/protective clothing/eye protection/face protection}.
P301+310	IF SWALLOWED Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth
P304+340	IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P308+313	IF exposed or concerned Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
2.3 Other hazards	No data available

3 Composition / Information on Ingredients

3.1 Substances

Synonyms	Indocin; 2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid
Molecular formula	C ₁₉ H ₁₆ ClNO ₄
Molecular weight	357.80

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid	53-86-1	100%	200-186-5

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 In case of skin contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

4.1.4 If swallowed

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

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4.2 Most important symptoms and effects, both acute and delayed

Exposure may cause: aggressive behavior, aplastic anemia, changes in tubules, coma, convulsions or seizures, dermatitis, disorientation, drowsiness, gastrointestinal ulceration/bleeding, hemorrhage, hematuria, hepatitis, lethargy, paresthesia, mental confusion, nausea, necrotic changes, numbness, retinal changes, stiffness, spleen and liver change, stomach pains, diarrhea, tumors, ulceration, vomiting.

The toxicological properties of this product have not been fully evaluated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

5.1.2 Unsuitable Extinguishing Media

A solid water stream may be inefficient.

5.2 Special hazards arising from the substance or mixture

5.2.1 Flammable Properties and Hazards

No data available

5.2.2 Flash Pt

No data available

5.2.3 Autoignition Pt

No data available

5.2.4 Explosive Limits

LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products

No data available

5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved (or equivalent) self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

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6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage

Keep container tightly closed.

Store in accordance with information listed on the product insert.

8 Exposure Controls/Personal Protection

8.1 Exposure limits

Component	CAS #	Value	Control parameters
2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid	53-86-1	No data available	No data available

8.2 Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.3 Personal protective equipment

8.3.1 Eye/face protection

Safety glasses

8.3.2 Skin protection

Compatible chemical-resistant gloves

Lab coat

8.3.3 Respiratory protection

NIOSH (US) or CEN (EU) approved respirator, as conditions warrant.

8.3.4 General hygiene considerations

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wash thoroughly after handling.

8.3.5 Environmental exposure controls

No data available

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9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	A crystalline solid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	~0.1 mg/mL in 0.1 M Na ₂ CO ₃ (with warming); ~6.5 mg/mL in EtOH; ~17.5 mg/mL in DMF & DMSO
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10 Stability and Reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong bases
10.6 Hazardous decomposition products	Carbon dioxide Carbon monoxide Hydrogen chloride gas Nitrogen oxides

11 Toxicological Information

11.1 Acute toxicity

Oral:	Toxicity Data: Oral LD50 (rat): 15 mg/kg
Inhalation:	No data available
Dermal:	No data available
Other:	No data available

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No data available

11.3 Serious eye damage/eye irritation

No data available

11.4 Respiratory and/or skin sensitization

No data available

11.5 Germ cell mutagenicity

No data available

11.6 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

Investigated as a reproductive effector.

11.8 Specific target organ toxicity - single exposure

No data available

11.9 Specific target organ toxicity - repeated exposure

No data available

11.10 Aspiration hazard

No data available

11.11 Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be fatal if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: Cause serious eye damage.

11.12 Signs and symptoms of exposure

Investigated as a mutagen and tumorigen.

Target Organs: Blood, Cardiovascular system, Eyes, Gastrointestinal System, Intestines, Stomach, Kidneys, Respiratory system, Nervous system, Endocrine system, Skin, Lymphatic system, Ureter.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.13 RTECS # NL3500000**12 Ecological Information****12.1 Toxicity**

Avoid release into the environment.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	No data available

13 Disposal Considerations

13.1 Waste disposal method

Dispose in accordance with local, provincial/state, and federal regulations.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN number	DOT	2811
	ADR/RID	2811
	IMDG	2811
	IATA	2811
14.2 UN proper shipping name	DOT	Toxic solid, organic, n.o.s. (Indomethacin)
	ADR/RID	Toxic solid, organic, n.o.s. (Indomethacin)
	IMDG	Toxic solid, organic, n.o.s. (Indomethacin)
	IATA	Toxic solid, organic, n.o.s. (Indomethacin)
14.3 Transport hazard class(es)	DOT	6.1 - POISON
	ADR/RID	6.1 - POISON
	IMDG	6.1 - POISON
	IATA	6.1 - POISON
14.4 Packing group	DOT	II
	ADR/RID	II
	IMDG	II
	IATA	II
14.5 Environmental hazards	No data available	
14.6 Special precautions	No data available	

15 Regulatory Information

15.1 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid	53-86-1	No	No	No	No

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15.2 Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP, ODC	CWA NPDES	TSCA	CA PROP.65
2-[1-(4-chlorobenzoyl)-5-methoxy-2-methylindol-3-yl]acetic acid	53-86-1	No	No	Inventory	No

15.3 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.4 Canada

WHMIS Classification:

D1A Toxic Material Causing Immediate and Serious Toxic Effects Highly toxic by ingestion
 D2A Very Toxic Material Causing Other Toxic Effects Teratogen

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information

16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.

16.2 Revision: 1_0_0

16.3 Notice: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.

16.4 Disclaimer: **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.**