



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Bisacodyl

sc-204653



The Power is Question

## Material Safety Data Sheet

Hazard Alert Code Key: **EXTREME** **HIGH** **MODERATE** **LOW**

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NAME

Bisacodyl

### STATEMENT OF HAZARDOUS NATURE

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

### NFPA



### SUPPLIER

Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800

### EMERGENCY:

ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### SYNONYMS

C22-H19-N-O4, "phenol, 4, 4' -(2-pyridylmethylene)di-, diacetate", "phenol, 4, 4' -(2-pyridylmethylene)bis-, diacetate", "4, 4' -(2-pyridylmethylene)diphenol-, diacetate", "(4, 4' -diacetoxydiphenyl)(2-pyridyl)methane", bis(p-acetoxyphenyl)-2-pyridylmethane, di-(p-acetoxyphenyl)-2-pyridylmethane, di-(4-acetoxyphenyl)-2-pyridylmethane, "4, 4' -diacetoxydiphenylpyrid-2-ylmethane", Bisalax, Broxolax, Contalax, Deficol, Dulcolan, Dulcolax, Durolox, Endokolat, Eulaxan, Godalax, Laxadin, Laxagetten, Laxanin, Laxans, Laxorex, Nigalax, Perilax, Pyril, Stadalax, Telemin, Theralax, Ulcolax, pur, "purgative/ laxative"

## Section 2 - HAZARDS IDENTIFICATION

### CHEMWATCH HAZARD RATINGS

|               | Min | Max |
|---------------|-----|-----|
| Flammability: | 1   |     |
| Toxicity:     | 2   |     |
| Body Contact: | 2   |     |
| Reactivity:   | 1   |     |
| Chronic:      | 2   |     |

Min/Nil=0  
Low=1  
Moderate=2  
High=3  
Extreme=4



### CANADIAN WHMIS SYMBOLS



## EMERGENCY OVERVIEW

### RISK

Harmful if swallowed.  
Irritating to eyes, respiratory system and skin.  
Very toxic to aquatic organisms.

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

#### SWALLOWED

- Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
- Constant use of purgatives/laxatives may decrease the sensitivity of the intestinal mucosa causing a diminished response to normal stimuli.

The redevelopment of a normal habit is thus prevented.

#### EYE

- This material can cause eye irritation and damage in some persons.

#### SKIN

- This material can cause inflammation of the skin on contact in some persons.
- The material may accentuate any pre-existing dermatitis condition.
- Open cuts, abraded or irritated skin should not be exposed to this material.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### INHALED

- The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
- Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

#### CHRONIC HEALTH EFFECTS

- Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Extended use of purgatives and laxatives can cause a profuse, watery diarrhea with severe dehydration, mineral losses, weakness and weight loss. Absorption from the bowel may become impaired and damage to the heart and kidneys can also occur. Medical supervision is recommended if used for children, contraindicated for pregnant women.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| NAME                                          | CAS RN   | %    |
|-----------------------------------------------|----------|------|
| bisacodyl                                     | 603-50-9 | > 99 |
| [4,4'-(2-pyridyl)methylene]di(phenylacetate)] |          |      |

## Section 4 - FIRST AID MEASURES

#### SWALLOWED

· IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. · Where Medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

#### EYE

- If this product comes in contact with the eyes: · Wash out immediately with fresh running water. · Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

#### SKIN

- If skin contact occurs: · Immediately remove all contaminated clothing, including footwear · Flush skin and hair with running water (and soap if available).

## INHALED

· If fumes or combustion products are inhaled remove from contaminated area. · Lay patient down. Keep warm and rested.

## NOTES TO PHYSICIAN

■ for poisons (where specific treatment regime is absent):

-----BASIC TREATMENT

- 
- Establish a patent airway with suction where necessary.
  - Watch for signs of respiratory insufficiency and assist ventilation as necessary.

## Section 5 - FIRE FIGHTING MEASURES

|                             |                 |
|-----------------------------|-----------------|
| Vapour Pressure (mmHG):     | Not applicable. |
| Upper Explosive Limit (%):  | Not available.  |
| Specific Gravity (water=1): | 1.40 approx     |
| Lower Explosive Limit (%):  | Not available.  |

## EXTINGUISHING MEDIA

- Foam.
- Dry chemical powder.

## FIRE FIGHTING

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 100 metres in all directions.

## GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Combustible.
  - Slight fire hazard when exposed to heat or flame.
- Combustion products include: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), other pyrolysis products typical of burning organic material.

## FIRE INCOMPATIBILITY

■ Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result.

## PERSONAL PROTECTION

Glasses:  
Chemical goggles.  
Gloves:  
Respirator:  
Particulate

## Section 6 - ACCIDENTAL RELEASE MEASURES

### MINOR SPILLS

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact by using protective equipment.
- Use dry clean up procedures and avoid generating dust.
- Place in a suitable, labelled container for waste disposal.

Environmental hazard - contain spillage.

### MAJOR SPILLS

■ Environmental hazard - contain spillage.

Moderate hazard.

- CAUTION: Advise personnel in area.
- Alert Emergency Responders and tell them location and nature of hazard.

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
  - Wear protective clothing when risk of exposure occurs.
- Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.
- Do NOT cut, drill, grind or weld such containers.

· In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

**RECOMMENDED STORAGE METHODS**

- Store in a dark glass or other suitable light resistant container.
- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

**STORAGE REQUIREMENTS**

- Observe manufacturer's storing and handling recommendations.

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE CONTROLS**

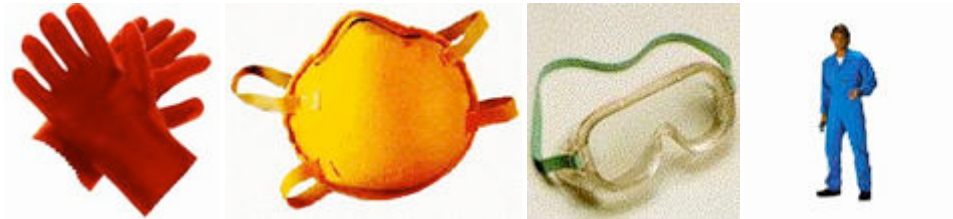
| Source                                                                           | Material                                                                           | TWA ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ | Peak ppm | Peak mg/m³ | TWA F/CC | Notes                                                                                                                                                                           |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|-----------|----------|------------|----------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada - British Columbia Occupational Exposure Limits                           | bisacodyl (Particles Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC)) |         | 10 (N)    |          |            |          |            |          |                                                                                                                                                                                 |
| US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants | bisacodyl (Particulates not otherwise regulated (PNOR)(f)-Respirable fraction)     |         | 5         |          |            |          |            |          |                                                                                                                                                                                 |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants        | bisacodyl (Particulates not otherwise regulated Respirable fraction)               |         | 5         |          |            |          |            |          |                                                                                                                                                                                 |
| US - California Permissible Exposure Limits for Chemical Contaminants            | bisacodyl (Particulates not otherwise regulated Respirable fraction)               |         | 5         |          |            |          |            |          | (n)                                                                                                                                                                             |
| US - Oregon Permissible Exposure Limits (Z-1)                                    | bisacodyl (Particulates not otherwise regulated (PNOR) (f) Total Dust)             | -       | 10        |          |            |          |            |          | Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated." |
| US - Michigan Exposure Limits for Air Contaminants                               | bisacodyl (Particulates not otherwise regulated, Respirable dust)                  |         | 5         |          |            |          |            |          |                                                                                                                                                                                 |

|                                                            |                                                                               |    |                                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------|----|-------------------------------------|
| Canada - Prince Edward Island Occupational Exposure Limits | bisacodyl (Particles (Insoluble or Poorly Soluble) [NOS] Inhalable particles) | 10 | See Appendix B current TLV/BEI Book |
|------------------------------------------------------------|-------------------------------------------------------------------------------|----|-------------------------------------|

|                                               |                                                                                 |   |                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US - Oregon Permissible Exposure Limits (Z-1) | bisacodyl (Particulates not otherwise regulated (PNOR) (f) Respirable Fraction) | 5 | Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated." |
|-----------------------------------------------|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

ENDOELTABLE

**PERSONAL PROTECTION**



**RESPIRATOR**

Particulate

**EYE**

- Safety glasses with side shields.
- Chemical goggles.

**HANDS/FEET**

■ Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

· When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.

· When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

· Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene
- nitrile rubber
- butyl rubber
- fluorocautchouc
- polyvinyl chloride

Gloves should be examined for wear and/ or degradation constantly.

**OTHER**

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

**ENGINEERING CONTROLS**

- Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a

certain proportion will be powdered by mutual friction.

· Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

Solid.

Does not mix with water.

Sinks in water.

|                           |                |                                |                 |
|---------------------------|----------------|--------------------------------|-----------------|
| State                     | Divided solid  | Molecular Weight               | 361.39          |
| Melting Range (°F)        | 268- 275       | Viscosity                      | Not Applicable  |
| Boiling Range (°F)        | Not available  | Solubility in water (g/L)      | Immiscible      |
| Flash Point (°F)          | Not Available  | pH (1% solution)               | Not available.  |
| Decomposition Temp (°F)   | Not available. | pH (as supplied)               | Not applicable  |
| Autoignition Temp (°F)    | Not available. | Vapour Pressure (mmHG)         | Not applicable. |
| Upper Explosive Limit (%) | Not available. | Specific Gravity (water=1)     | 1.40 approx     |
| Lower Explosive Limit (%) | Not available. | Relative Vapor Density (air=1) | Not Applicable  |
| Volatile Component (%vol) | Nil @ 38 C.    | Evaporation Rate               | Not Applicable  |

### APPEARANCE

Odourless, tasteless white crystals or powder. Insoluble in water. Slightly soluble in alcohol, ether. Soluble in chloroform.

## Section 10 - CHEMICAL STABILITY

### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.

### STORAGE INCOMPATIBILITY

- Avoid strong acids, bases.
- Avoid reaction with oxidizing agents.

For incompatible materials - refer to Section 7 - Handling and Storage.

## Section 11 - TOXICOLOGICAL INFORMATION

bisacodyl

### TOXICITY AND IRRITATION

BISACODYL:

■ unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

| TOXICITY                          | IRRITATION   |
|-----------------------------------|--------------|
| Oral (rat) LD50: 4320 mg/kg       | Nil Reported |
| Oral (Mouse) LD50: 17500 mg/kg    |              |
| Intravenous (Mouse) LD: 80 mg/kg  |              |
| Intravenous (Dog) LD: 40 mg/kg    |              |
| Intravenous (Cat) LD: 40 mg/kg    |              |
| Intravenous (Rabbit) LD: 40 mg/kg |              |

■ Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

## Section 12 - ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.  
This material and its container must be disposed of as hazardous waste.  
Avoid release to the environment.  
Refer to special instructions/ safety data sheets.

### Ecotoxicity

| Ingredient | Persistence:<br>Water/Soil | Persistence: Air | Bioaccumulation | Mobility |
|------------|----------------------------|------------------|-----------------|----------|
| bisacodyl  | HIGH                       |                  | LOW             | LOW      |

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Instructions

All waste must be handled in accordance with local, state and federal regulations.  
Puncture containers to prevent re-use and bury at an authorized landfill.  
Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.  
A Hierarchy of Controls seems to be common - the user should investigate:  
· Reduction  
· Reuse  
· Recycling  
· Disposal (if all else fails)  
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.  
DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.  
· Recycle wherever possible.  
· Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.

## Section 14 - TRANSPORTATION INFORMATION



DOT:

Symbols: G Hazard class or Division: 9

Identification Numbers: UN3077 PG: III

Label Codes: 9 Special provisions: 8, 146,

335, B54,

IB8, IP3,

N20, T1,

TP33

Packaging: Exceptions: 155 Packaging: Non- bulk: 213

Packaging: Exceptions: 155 Quantity limitations: No limit

Passenger aircraft/rail:

Quantity Limitations: Cargo No limit Vessel stowage: Location: A  
aircraft only:

Vessel stowage: Other: None

Hazardous materials descriptions and proper shipping names:

Environmentally hazardous substance, solid, n.o.s

### Air Transport IATA:

ICAO/IATA Class: 9 ICAO/IATA Subrisk: None

UN/ID Number: 3077 Packing Group: III

Special provisions: A97

Cargo Only

Packing Instructions: 400 kg Maximum Qty/Pack: 400 kg

Passenger and Cargo Passenger and Cargo

Packing Instructions: 956 Maximum Qty/Pack: 956



Passenger and Cargo Limited Quantity Passenger and Cargo Limited Quantity  
Packing Instructions: 30 kg G Maximum Qty/Pack: Y956  
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S. \*(CONTAINS BISACODYL)

**Maritime Transport IMDG:**

IMDG Class: 9 IMDG Subrisk: None  
UN Number: 3077 Packing Group: III  
EMS Number: F-A , S-F Special provisions: 179 274 335 909  
Limited Quantities: 5 kg Marine Pollutant: Yes  
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains bisacodyl)

## Section 15 - REGULATORY INFORMATION

**bisacodyl (CAS: 603-50-9) is found on the following regulatory lists;**

"Canada Non-Domestic Substances List (NDSL)", "US Toxic Substances Control Act (TSCA) - Inventory"

## Section 16 - OTHER INFORMATION

*Reasonable care has been taken in the preparation of this information, but the author makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The author makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. For additional technical information please call our toxicology department on +800 CHEMCALL.*

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:  
[www.chemwatch.net/references](http://www.chemwatch.net/references).

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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