



# 100-1162 - Monensin (Sodium Salt)

Revision Date 20-Dec-2022 Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product Name	Monensin (Sodium Salt)	
Other means of identification		
Catalog Number	100-1162	
UN/ID no.	UN3462	
Document Number	10000019485	
Synonyms	Monensin A; NSC 343257; 2-[5-ethyltetrahydro-5-[tetrahydro-3-methyl-5-[tetrahydro-6-hydroxy-6-hydroxymethyl-3,5-di methyl-2H-pyran-2-yl]-2-furyl]-2-furyl]-9-hydroxy- $\beta$ -methoxy- $\alpha$ , $\gamma$ ,2,8-tetramethyl-1,6-dioxaspi ro[4.5]decane-7-butyric acid, monosodium salt;	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Laboratory chemical	
Details of the supplier of the safety data sheet Manufacturer/Supplier STEMCELL Technologies Canada Inc.		
Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6	Canada	
Emergency telephone number		
Emergency Telephone	1-800-667-0322	
	2. HAZARDS IDENTIFICATION	
Classification		
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)		

Acute toxicity - Oral Category 2

#### Hazards not otherwise classified (HNOC) Not applicable





Revision Date 20-Dec-2022 **Revision Number** 1

# 100-1162 - Monensin (Sodium Salt)

Label elements

Danger		
<u>Hazard statements</u> Fatal if swallowed		
Appearance Crystalline	Physical state Solid	Odor No data available

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

## **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other Information

Not applicable

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Synonyms

Monensin A;. NSC 343257;. 2-[5-ethyltetrahydro-5-[tetrahydro-3-methyl-5-[tetrahydro-6-hydroxy-6-hydroxymethyl-3,5-di





Revision Date 20-Dec-2022 Revision Number 1

# 100-1162 - Monensin (Sodium Salt)

methyl-2H-pyran-2-yl]-2-furyl]-2-furyl]-9-hydroxy- $\beta$ -methoxy- $\alpha$ , $\gamma$ ,2,8-tetramethyl-1,6-dioxaspi ro[4.5]decane-7-butyric acid, monosodium salt;.

Chemical name	CAS No.	Weight-%
sodium 4-(2-{	22373-78-0	100
2-ethyl-5'-[6-hydroxy-6-(hydroxymethyl)-3,5-dimethy		
Itetrahydro-2H-pyran-2-yl]-3'-methyloctahydro-2,2'-b		
ifuran-5-yl}		
-9-hydroxy-2,8-dimethyl-1,6-dioxaspiro[4.5]dec-7-yl)		
-3-methoxy-2-methylpentanoate		

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

## **Description of first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Get immediate medical advice/attention. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



100-1162 - Monensin (Sodium Salt)



# SAFETY DATA SHEET

Revision Date 20-Dec-2022 Revision Number 1

# Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient. Specific hazards arising from the chemical No information available. Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store locked up. Store in accordance with information listed on the Product Information Sheet (PIS). Keep out of the reach of children.





Revision Date 20-Dec-2022 Revision Number 1

# 100-1162 - Monensin (Sodium Salt)

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure
	recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

#### **Appropriate engineering controls**

#### Engineering controls Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and o	chemical properties
Physical state	Solid
Appearance	Crystalline
Color	No information available
Odor	No data available
Odor threshold	No data available
Property_	Values
pH	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No data available

Remarks • Method None known None known None known None known





100-1162 - Monensin (Sodium Salt)

Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents

Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density Product is not flammable. No data available ~15 mg/mL in EtOH; ~1 mg/mL in DMF; No data available No data available

No data available

No information available 692.9 C36H61O11 • Na No information available No information available No information available

No information available

None known None known None known Revision Date 20-Dec-2022 Revision Number 1

None known None known None known None known None known None known

None known None known

None known

## **10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under recommended transport or storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products Carbon oxides.

# **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

**Product Information** 





Revision Date 20-Dec-2022 **Revision Number** 1

# 100-1162 - Monensin (Sodium Salt)

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on components).
Symptoms related to the physical, chemical and toxicological characteristics	

Symptoms

No information available.

## Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 29.00 mg/kg

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) **Product Information** 

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
sodium 4-(2-{	= 29 mg/kg (Rat)	-	-
2-ethyl-5'-[6-hydroxy-6-(hydroxy			
methyl)-3,5-dimethyltetrahydro-			
2H-pyran-2-yl]-3'-methyloctahyd			
ro-2,2'-bifuran-5-yl}			
-9-hydroxy-2,8-dimethyl-1,6-dio			
xaspiro[4.5]dec-7-yl)-3-methoxy			
-2-methylpentanoate			
22373-78-0			

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. Skin corrosion/irritation Product Information

#### Serious eye damage/eye irritation No information available.

Product Information





Revision Date 20-Dec-2022 Revision Number 1

# 100-1162 - Monensin (Sodium Salt)

Respiratory or skin sensitization	No information available.	
Product Information		
Germ cell mutagenicity Product Information	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
	Product Information	
STOT - single exposure	No information available.	
	Product Information	
STOT - repeated exposure	No information available.	
	Product Information	
Aspiration hazard RTECS #	No information available. JH2830000	
12. ECOLOGICAL INFORMATION		
Ecotoxicity	The environmental impact of this product has not been fully investigated. Product Information	
Persistence and degradability	No information available.	
Bioaccumulation	There is no data for this product.	
Other adverse effects	No information available.	

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.



PICCS



# SAFETY DATA SHEET

Revision Date 20-Dec-2022 Revision Number 1

# 100-1162 - Monensin (Sodium Salt)

14. TRANSPORT INFORMATION		
Note:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.	
DOT UN/ID no. Proper shipping name Hazard class Packing Group	UN3462 Toxins, extracted from living sources, solid, n.o.s. (Monensin (sodium salt)) 6.1 Toxic substances II	
TDG	Not regulated	
MEX	Not regulated	
ICAO (air)	Not regulated	
IATA UN Number UN proper shipping name Transport hazard class(es) Packing Group	UN3462 Toxins, extracted from living sources, solid, n.o.s. (Monensin (sodium salt)) 6.1 Toxic substances II	
IMDG UN Number UN proper shipping name Transport hazard class(es) Packing Group	UN3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Monensin (sodium salt)) 6.1 Toxic substances II	
RID	Not regulated	
ADR	Not regulated	
ADN	Not regulated	
15. REGULATORY INFORMATION		
International Inventories TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL	Does not comply Complies Complies Does not comply Complies Does not comply	
DICCC	Decempty	

Does not comply





Revision Date 20-Dec-2022 Revision Number 1

# 100-1162 - Monensin (Sodium Salt)

AICS

Does not comply

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

**US State Regulations** 

This product does not contain any substances regulated by state right-to-know regulations





# 100-1162 - Monensin (Sodium Salt)

Revision Date 20-Dec-2022 Revision Number 1

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Quality Control. STEMCELL Technologies Canada Inc.

Prepared By,

Revision Date 20-Dec-2022

Revision Note No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet