# Material Safety Data Sheet (Canada) MSDS No. Senator PSPT

Nisso NIPI	PON SODA CO.,LTD.
Section 1 Che	emical Product and Compa
Product Name	Senator PSPT Potato

Section 1 (	Section 1 Chemical Product and Company Identification						
Product Name	Product Name Senator PSPT Potato Seed Piece Treatment						
Chemical Nam	mical Name thiophanate-methyl						
Primary Use		Powder	fungicide for coating seed	potatoes			
Distributor	Na	me	Belchim Crop Protection C	Canada, Inc	<b>:</b> .		
	Ad	dress	104 Cooper Drive, Unit 3, Guelph, Ontario, Canada, N1C 0A4			nnada, N1C 0A4	
	TE	L. No.	866-613-3336		Fax N	Vo.	877-220-2223
Manufacturer	er Name		Nippon Soda Co., Ltd.				
	Address		2-1, Ohtemachi 2-Chome, Chiyoda-ku, Tokyo 100-8165, Japan		00-8165, Japan		
	TEL. No. +8		+81-3-3245-6041		Fax N	Vo.	+81-3-3245-6287
Emergency	TE	L. No	+1-866-336-2983		Fax N	Vo.	
Date Prepared July 8, 2010			010	Date Rev	ised	Jul	y 2, 2019

Section 2 H	Section 2 Hazardous Identification					
Route of Entry Skin: no Inhalation: yes Ingestion: no						
Emergency Overview	Stable Harmfu Suspect May ca Toxic to	in normal conditional if inhaled.  Ited of causing genetic	defects. and respiratory system through pr	-		

Section 3 Composition/Information on Ingredient					
	%	Expos	ure Limits		
Component	(wt.)	OSHA	ACGIH	NIOSH	
	(**)	PEL( mg/m3)	TLV ( mg/m3)	REL ( mg/m3)	
Active Ingredient					
dimethyl 4,4'-(o-phenylene)bis(3-thioallophanate);					
{1,2-di-(3-methoxycarbonyl-2-thioureido)benzene };					
{Dimethyl [1,2-phenylenebis(iminocarbonothioyl)bis-	10.0	Not listed.	Not listed.	Not listed.	
[carbamate] };					
(CASNo.23564-05-8)					
Thiophanate-methyl (ISO name)					
Inactive Ingredient					
Amorphous-Diatomaceous earth,<1%crystalline SiO <sub>2</sub>		0.0	10	_	
(CASNo.61790-53-2)	3.1	80	10	6	
Amorphous-gel & precipitated silica					
(CASNo.112926-00-8)	0.6	80	10	6	
Surfactants	0.6	Not listed.	Not listed.	Not listed.	

Section 4	First Aid Measures
Eye	Immediately flush eyes with plenty of water for at least 15min.  Get medical advice if irritation persists.
G1 :	
Skin	Wash skin with soap and water while removing contaminated clothing and shoes.
Inhalation	Remove to fresh air and call a physician.
Ingestion	Induce vomiting immediately, as directed by a physician. Wash out mouth with water. Never give
	anything by mouth to an unconscious person. Call a physician.

#### ISSO NIPPON SODA CO.,LTD.

## Material Safety Data Sheet (Canada) MSDS No. Senator PSPT

Note to Not known.
Physicians

Section 5 Fire	Section 5 Fire Fighting Measures				
Flammable Properties	Not flammable.				
Unusual Fire & Explosion Hazards	Thermal decomposition or combustion may produce carbon dioxide, carbon monoxide, sulfur oxide and nitrogen oxides.				
Extinguishing Media	Water spray, foam, dry chemicals, carbon dioxide.				
Fire Fighting	Protective equipment				
Instructions	Wear self-contained breathing apparatus and complete personal protective equipment.				
	Fire-Fighting procedure				
	Move containers away from fire area if it can be done. If impossible to remove containers				
	from fire zone, cool them with water spray.				

#### **Section 6** Accidental Release Measures

Protective equipment

Wear personal protective equipment. Refer to Section 8 for personal protective equipment.

Personal precaution

Avoid raising dust.

Environment precaution

Prevent from releasing it to the environment as this product is toxic to aquatic organisms.

Cleaning procedure

Obey all Federal, State or local regulations for health & safety and environmental protection when the accidental release is treated.

Sweep up, place in a bag and hold for waste disposal. Wash spill site with soap and plenty of water after material pick-up is complete.

Do not discharge to river, sea, lake, waterway or sewer systems directly.

<b>Section 7</b>	Handling and Storage				
Handling	Wear personal protective equipment. Refer to Section 8 for personal protective equipment.				
C	Handle as an organic dust.				
	Avoid release to environment.				
	Avoid contact with eyes, skin and clothing.				
	Avoid breathing dust.				
	Use only in a well ventilated areas, or chemical fume hood.				
	Wash thoroughly after handling.				
	Keep out of the reach of children.				
Storage	Keep in container tightly closed.				
Store at a room temperature.					
	Protect from direct contact with water or excessive moisture, acids or bases.				

Section 8 Exposure Control/Personal protection						
Specific Engineering Use general and/or local exhaust ventilation to control dusts.  Controls						
Personal Pro	Personal Protection Equipment					
Respiratory	Appropri	ate respirator for dust.	Gloves	Outside: Polyvinyl chloride, Polyethylene or Rubber Inside: Cotton, Rayon		
Eye/Face		y glasses. If there is a potential re for dust, wear safety goggles.	Footwear	Working shoes with socks.		
Clothing	Working	cloths with long sleeves and long	Others	None		

### Material Safety Data Sheet (Canada)

**Nisso** NIPPON SODA CO.,LTD.

pants.

MSDS No. Senator PSPT

Section 9 Ph	nysical and Chemical Properti	es	
Appearance	Grey-brown powder.	Odor	Faint sulfur odor.
Density	Not applicable.	Bulk Density	Ca 0.2 g/cm <sup>3</sup>
Melting Point	Not applicable.	Boiling Point	Not available.
Vapor Density (air=1)	Not applicable.	Vapor Pressure	Not available.
Evaporation Rate (Ethyl acetate=1)	Not applicable.	pН	4.0 – 7.0 (CIPAC method)
Solubility in water	Negligible but dispersible.	Solubility in solvent	Not available.
Log Po/w	1.44 (active ingredient)		
Flash Point	Not applicable.	Autoignition Temp.	Not applicable.
Dust Explosion Limit	225 g/m <sup>3</sup>		

Section 10 S	Section 10 Stability and Reactivity			
Chemical Stability	Stable	X	If unstable, condition to avoid unstable reaction. Stable in normal condition.	
Stability	Unstable	A	Stable in normal condition.	
Hazardous Polymerization	May occur	X	If polymerization may occur, condition to avoid it.	
	Will not occur			
Reactivity	May react with strong oxidizing agents.			
Incompatible materials	Oxidizing a	Oxidizing agents, strong acids or bases.		
Hazardous Decomposition Product	CO, CO <sub>2</sub> , SO <sub>X</sub> , NO <sub>X</sub> .			
Others	Avoid high	tempe	rature.	

#### **Section 11. Toxicological Information**

Effect of Acute Exposure

Acute Toxicity

 $\begin{array}{lll} Oral~(rat) & LD_{50} > 5000~mg/kg \\ Dermal(rat) & LD_{50} > 10000~mg/kg \\ Inhalation(rat) & LC_{50}(4hr) > 1700~mg/m^3/4H \\ (The following data is for Thiophanate- Methyl) \end{array}$ 

Inhalation(rat)  $LC_{50}(4hr)$  1.7mg/L(male), 1.9mg/L(female)

Sensitization(skin):

Negative

#### **Nisso** NIPPON SODA CO.,LTD.

#### Material Safety Data Sheet (Canada)

MSDS No. Senator PSPT

Irritation:

Eyes(rabbit): Mild Dermal(rabbit): Negative

Mutagenicity Ames test: (Active

Negative

ingredient) UDS test: Negative Chromosomal aberration test:

Negative

Micronucleus test: Positive

Carcinogenicity NTP: no IARC: no ACGIH Regulated: no

Subacute Toxicity (Active ingredient)

90-days repeated dose test

NOEL(rat): 13.9mg/kg/day: 90days

Chronic Toxicity and Carcinogenicity (Active ingredient)

Chronic toxicity/Carcinogenicity test(2years)

NOEL(mouse): 16mg/kg/day(male), 64mg/kg/day(female)

NOEL(rat): 8.8mg/kg/day(male), 10.2 mg/kg/day(female)

Teratogenicity (Active ingredient)

Teratogenicity(rat): Negative

Teratognicity (rabbit): : Negative

Reproductive Toxicity (Active ingredient)

3 generations reproductive test(rat): Reproductive Toxicity: Negative

#### Section12 **Ecological Information**

**Environmental Fate** 

Bio-Degradability:

No information.

Bio-Accumulative Potential:

No information.

**Ecological Toxicity** 

Acute Toxicity to aquatic organisms

Acute Toxicity to Fish: LC<sub>50</sub>(Carp) >100 mg/L (96hrs) (RD 8923)

> LC<sub>50</sub>(Trout) 2.2 mg/L (96hrs) (RD 8329)

Acute Toxicity to Daphnia: EC<sub>50</sub>(Daphnia magna) 15.6 mg/L (48hrs) (RD8303) EbC<sub>50</sub>(Green Algae)

Acute Toxicity to Algae:

4.7 mg/L (72hrs) (RD 8305)

#### **Section 13 Disposal Considerations**

- 1) Mix the material with sawdust or combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- 2) Do not discharge into waterway or sewer systems unless permission has been obtained by the local authority and suitable dilution has been established.
- 3) Contaminated empty containers must be disposed of as chemical waste.
- 4) Obey all Federal, State and local regulations concerning health & safety and environmental protection.

## Material Safety Data Sheet (Canada) MSDS No. Senator PSPT

**Nisso** NIPPON SODA CO.,LTD.

**Section 14** Transport Information

International marine transportation(IMDG)

Classified as dangerous goods in IMDG Code.

UN No. 3077 Class 9

Proper shipping name Environmentally hazardous substance, solid, N.O.S.(Thiophanate-

methyl mixture)

Packing group III

Marine pollutant: applicable

IATA Dangerous Goods Regulations

Classified as dangerous goods in IATA-DGR.

UN No. 3077 Class 9

Proper shipping name Environmentally hazardous substance, solid, n.o.s.(Thiophanate-

methyl mixture)

Packing group III

Marine pollutant: applicable

**DOT Regulations** 

Proper shipping name Environmentally hazardous substance, solid, n.o.s.(Thiophanate-

methyl mixture), RQ

Hazard Class: 9

Identification No.: UN 3077

Packing Group: III

Emergency Response Guide No. 171

Section 15	Regulatory Information	
TSCA		Not listed(CAS No.: 23564-05-8)
OSHA		Not listed(CAS No.: 23564-05-8)
SARA		Listed(CAS No.: 23564-05-8)
CERCLA		Listed(CAS No.: 23564-05-8)
Others		None

#### **Section 16 Other Information**

Label Information

NFPA Rating: Health; 1 Flammability; 1 Instability; 0

**Revised Information** 

ENCS(JAPAN)	Not listed(CAS No.: 23564-05-8)
EINECS(EU)	Listed(CAS No.: 23564-05-8)
DSL(Canada)	Listed(CAS No.: 23564-05-8)
IECSC(China)	Listed(CAS No.: 23564-05-8)

### **NISSO** NIPPON SODA CO.,LTD.

# Material Safety Data Sheet (Canada) MSDS No. Senator PSPT

**Revised Information** 

This MSDS was prepared according to ANSI Z400.1-2003

This information is taken from sources or based upon data believed to be reliable. However, Nippon Soda Co., LTD. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.