

# **Scientific Documentation**

# Podophyllum Resin, USP

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





# **Table of Contents**

Product Specification
Certificate of Analysis
Safety Data Sheet (SDS)
Certification of Current Good Manufacturing Practices (cGMP)
Manufacturing Process Flowchart
Technical Statements
Elemental Impurities Statement
Residual Solvents Statement
General Label Information – Sample Label



# Specification for Podophyllum Resin, USP (PO105)

Item Number	PO105
Item	Podophyllum Resin, USP
CAS Number	9000-55-9
Molecular Formula	
Molecular Weight	
MDL Number	
Synonyms	

Test	Specifica	ation
	Min	Max
ASSAY (HEXANE INSOLUBLE)	40.0	50.0 %
DISTINCTION FR. RESIN OF INDIAN PODOPHYLLUM		DOES NOT GEL
RESIDUE AFTER IGNITION		1.5 %
ELEMENTAL IMPURITIES		AS REPORTED
IDENTIFICATION (A)	SOLUBLE, PRECIPITATES WITH HCI	
IDENTIFICATION (B)	FILTRATE TURNS BROWN	
EXPIRATION DATE		
DATE OF MANUFACTURE		
APPEARANCE		
RESIDUAL SOLVENTS		AS REPORTED

### Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



# **Certificate Of Analysis**

Item Number	PO105	Lot Number	4ME0043
Item	Podophyllum Resin, USP	Manufacturer Lot	PPR-2301
CAS Number	9000-55-9	Manufacturer Code	4691

TECT	SPECIF	CATION	DECLUIT.
TEST	MIN	MAX	RESULT
ASSAY (HEXANE INSOLUBLE)	40.0	50.0 %	46.8%
DISTINCTION FR. RESIN OF INDIAN PODOPHYLLUM		DOES NOT GEL	DOES NOT GEL
RESIDUE AFTER IGNITION		1.5 %	0.5%
ELEMENTAL IMPURITIES		AS REPORTED	COMPLIES WITH STANDARD
IDENTIFICATION (A)	SOLUBLE, PRECIPITATES WITH HCI		SOLUBLE, PRECIPITATES WITH HCL
IDENTIFICATION (B)	FILTRATE TURNS BROWN		FILTRATE TURNS BROWN
EXPIRATION DATE			31-JAN-2027
DATE OF MANUFACTURE			01-JAN-2023
APPEARANCE			LIGHT BROWN TO GREENISH YELLOW POWDER
RESIDUAL SOLVENTS		AS REPORTED	
CLASS 2 (SOLVENT) / METHANOL			<3000 ppm
CLASS 2 (solvent) / METHYLENE CHLORIDE			<600 ppm
MONOGRAPH EDITION			USP 2023

Certificate of Analysis Results Entered By:

GHERRERA Genaro Herrera 17-JUN-23 07:05:52

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

AWILLIAMS Allison Williams 17-JUN-23 07:06:52

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

Spectrum Chemical Mfg. Corp. repackages Active Pharmaceutical Ingredient chemicals provided by other manufacturers and suppliers. For traceability purposes, Spectrum's Certificate of Analysis contains an identifier code unique to each manufacturer or supplier, as well as the chemical's lot number provided on the original manufacturer Certificate of Analysis. This material is manufactured by Inga Pharmaceuticals at Plot No.b-1(pt) Phase II, Zone A, MEPZ Special Economic Zone, NH-45-Tambaram, Chennai, Tamil Nadu 600 045, India (IND). Copies of the original Certificate of Analysis are available upon request from your Spectrum Sales Representative or by calling Spectrum's Quality Department at 1-800-772-8786.





# SAFETY DATA SHEET

**Revision Number: G2** Preparation Date: 8/23/2016 Revision date 12/19/2018

1. Identification

Product identifier

Product code: PO105

**Product Name:** PODOPHYLLUM RESIN, USP

Other means of identification

Podophyllum Synonyms:

Podofillina (Italian)

9000-55-9 CAS #: TP8925000 RTECS# Not available CI#:

Recommended use of the chemical and restrictions on use

Recommended use: No information available. No information available Uses advised against

Spectrum Chemical Mfg. Corp Supplier:

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

https://www.spectrumchemical.com Order Online At:

Chemtrec 1-800-424-9300 Emergency telephone number

Tom Tyner (USA - West Coast) **Contact Person:** Ibad Tirmiz (USA - East Coast) **Contact Person:** 

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

Danger

Hazard statements Fatal if swallowed

Product code: PO105 Product name: PODOPHYLLUM Page

Fatal in contact with skin
Fatal if inhaled
Causes skin irritation
Causes serious eye irritation
May damage fertility or the unborn child
May cause respiratory irritation



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

May be harmful in contact with skin

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water

Immediately call a POISON CENTER or doctor/physician

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product code: PO105 Product name: PODOPHYLLUM Page

Component	CAS No	Weight-%
Podophyllum Resin	9000-55-9	100

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

himself.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical

attention is required. Call a physician or Poison Control Centre immediately.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

#### Most important symptoms and effects, both acute and delayed

Symptoms Contact causes skin irritation

Causes eye irritation

Irritating to respiratory system

May cause abdominal pain, nausea, vomiting, diarrhea

May affect the cardiovascular system

Hypotension

Cardiac arrhythmias

Weak, rapid pulse or rapid heart rate (Tachycardia) Dyspnea (Shortness of breath and difficulty breathing)

Peripheral neuropathy

Paresthesia (numbness and tingling of the extremities)

Muscle weakness

May cause central nervous system effects

Ataxia Excitement

May cause metabolic acidosis
It may affect the kidneys

It may affect the kidneys
It may affect the blood

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** Treat symptomatically.

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

#### 5. FIRE-FIGHTING MEASURES

Product code: PO105 Product name: PODOPHYLLUM Page

**Extinguishing Media** 

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products No information available.

Specific hazards May be combustible at high temperatures.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear

personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Avoid breathing dust. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers, basements or confined areas. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:** 

Product code: PO105 Product name: PODOPHYLLUM Page

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **National occupational exposure limits**

#### **United States**

Component	Component CAS No		OSHA NIOSH		AIHA WEEL
Podophyllum Resin	9000-55-9	None	None	None	None

#### Canada

	Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec	
Г	Podophyllum Resin	9000-55-9	None	None	None	None	

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Podophyllum Resin	9000-55-9	None	None

#### **Appropriate engineering controls**

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. 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.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

**Eye protection:** Goggles

**Skin and body protection:** Chemical resistant apron

Gloves

Long sleeved clothing

**Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or

equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands and face before breaks and immediately after handling the

product

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: PO105 Product name: PODOPHYLLUM Page

Physical state: Appearance: Color:

Solid Powder. Light brown. Yellowish-brown.

Odor: **Taste Formula** 

No information available. No information available. No information available

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

No information available no data available No information available

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

No information available

Density (q/cm3):

VOC content (g/L):

Viscosity:

No information available

No information available

No information available

Vapor pressure @ 20°C (kPa): No information available

**Lower Explosion Limit (%):** 

**Upper Explosion Limit (%):** Melting point/range(°C/°F): Decomposition temperature(°C/°F): No information available

No information available No information available

Boiling point/range(°C/°F): **Bulk density:** 

No information available No information available

Specific gravity: pН

No information available No information available

**Evaporation rate:** Vapor density:

No information available No information available

Odor threshold (ppm): Partition coefficient No information available (n-octanol/water):

No information available

Miscibility: Solubility:

Soluble in Alcohol No information available

Soluble in Chloroform Soluble in Acetone

10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Heat. Avoid dust formation. Exposure to light. Incompatible materials. **Conditions to avoid:** 

**Incompatible Materials:** Oxidizing agents

Hazardous decomposition

products:

No information available.

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

Product code: PO105 Product name: PODOPHYLLUM Page

#### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

#### **Acute Toxicity**

#### **Component Information**

Podophyllum Resin

CAS No 9000-55-9

LD50/oral/rat = No information available

LD50/oral/mouse = 68 mg/kg Oral LD50 Mouse

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Tox = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = 68 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

**VALUE - Acute Tox Dermal =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** Causes skin irritation. Fatal if absorbed through skin.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** Fatal if inhaled. Irritating to respiratory system.

**Ingestion** Fatal if swallowed. Ingestion may cause nausea, vomiting. May cause

hypermotility, diarrhea. May cause abdominal pain. May affect respiration

(dyspnea - difficulty breathing and shortness of breath). May affect

behavior/central nervous system (ataxia). May affect behavior/central nervous system (depression or excitement). May affect behavior/central nervous system

Product code: PO105 Product name: PODOPHYLLUM Page

(convulsions/seizures). May affect behavior/central nervous system (confusion). May affect behavior/central nervous system (dizziness, drowsiness). May affect the cardiovascular system (tachycardia). May affect cardiovascular system (hypotension, cardiac arrhythmias). May affect the blood. May affect the kidneys. May affect liver. May cause metabolic acidosis. May cause painful or difficult urination. May affect the peripheral nervous system and cause severe peripheral neuropathy with paresthesia (a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles") generally of the hands and feet (extremities)), muscle weakness.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Podophyllum Resin	9000-55-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity May damage fertility or the unborn child

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure

**Target Organs:** 

No information available. No information available. No information available.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Product code: PO105 Product name: PODOPHYLLUM

RESIN, USP

Page

Mobility in soilNo information availableOther adverse effectsNo information available.

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component			RCRA - F Series RCRA - K Series Wastes Wastes		RCRA - U Series Wastes
Podophyllum Resin	9000-55-9	None	None	None	None

#### 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solids, organic, n.o.s. (podophyllum resin)

Hazard Class 6.<sup>-</sup>

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine Pollutant
DOT RQ (lbs):
Special Provisions
Severe Marine Pollutant
No information available
IB8, IP3, T1, TP33

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

**Description:** UN2811, Toxic solids, organic, n.o.s., 6.1, III

TDG (Canada)

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

**ADR** 

UN Number UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.1 Packing group

Subsidiary Risk: No information available

Special Provisions 274, 614

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

**IMDG** 

**UN-No:** UN2811

Product code: PO105 Product name: PODOPHYLLUM Page

**Proper Shipping Name:** Toxic solids, organic, n.o.s. (podophyllum resin)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Special Provisions 223, 274

**Description** UN2811, Toxic solid, organic, n.o.s. (PODOPHYLLUM RESIN), 6.1, III

**RID** 

UN Number UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.1

Subsidiary Risk: No information available

Packing group III

Special Provisions 274, 614

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

ICAO (air)

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

Special Provisions A3, A5

IATA

UN Number UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.

Subsidiary Risk: No information available

Packing group III
Precautionary Statements - 6L

Response

Special Provisions No information available

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

#### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Podophyllum Resin	9000-55-9	Not Listed	Not present	Not present	Not present	Not listed	Present	Present 232-546-2

#### **U.S. Regulations**

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
-----------	--------	------------	------------------------	------	--------

Product code: PO105 Product name: PODOPHYLLUM Page

				Reproductive Toxicity	Reproductive Toxicity:
Podophyllum Resin	9000-55-9	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

<b>Component</b> CA	AS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Podophyllum Resin 900	00-55-9	None	None	None	None	None

#### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	1 ' '
Podophyllum Resin	9000-55-9	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Podophyllum Resin	9000-55-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Podophyllum Resin	9000-55-9	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Podophyllum Resin	9000-55-9	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Podophyllum Resin	9000-55-9	

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

#### S -phrase(s)

Product code: PO105 Product name: PODOPHYLLUM Page

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Podophyllum Resin	9000-55-9		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

T - Toxic Xn - Harmful Xi - Irritant







#### **16. OTHER INFORMATION**

Preparation Date: 8/23/2016
Revision date 12/19/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: PO105 Product name: PODOPHYLLUM Page



### Certification of Compliance with current Good Manufacturing Practices

#### Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
PO105	Podophyllum Resin, USP

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <a href="mailto:qualityassurance@spectrumchemical.com">qualityassurance@spectrumchemical.com</a>

Sincerely,

Oralia Chavez

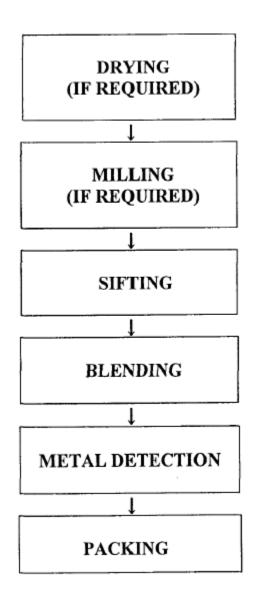
**Quality Assurance Specialist** 

Order Clony



# **Manufacturing Process Flowchart**

Podophyllum Resin, USP (Cat# PO105)



CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY



# PO105, Podophyllum Resin, USP

#### **Source Statement**

The above mentioned catalog item is manufactured by plant derived material (Podophillium Peltatum root). No animal derived products are used in the manufacturing process.

#### **BSE/TSE Statement**

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

# **Allergen Statement**

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

# **EU Fragrance Allergen Statement**

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

#### **GMO Statement**

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

#### **Melamine Statement**

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.



#### **Nitrosamine Statement**

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

# **Animal Testing Statement**

The above mentioned catalog item has not been tested on animals.

# **Organic Compliance Statement**

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

#### **Shelf Life Statement**

The above mentioned catalog item is typically assigned a shelf life of 48 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

#### **Other Chemicals Statement**

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives



## RE: Elemental Impurities - Podophyllum Resin, USP (Cat# PO105)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Cadmium	Cd	1	< 0.5 ppm
Lead	Pb	1	< 0.5 ppm
Arsenic	As	1	< 1.5 ppm
Mercury	Hg	1	< 3.0 ppm
Cobalt	Со	2A	< 5.0 ppm
Vanadium	V	2A	< 10.0 ppm
Nickel	Ni	2A	< 20.0 ppm

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY



This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY



## RE: Residual Solvents - Podophyllum Resin, USP (Cat# PO105)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

Residual Solvent	Class	Expected Concentration
Methanol	2	< 3000 ppm
Methylene Chloride	2	< 600 ppm

No Class 1, Class 3, or other solvents are used or produced in the manufacturing process of this material.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY



# **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

### DANGER



• Fatal if swallowed, in contact with skin or if inhaled • Causes serious eye irritation • Causes skin irritation • May cause respiratory irritation • May damage fertility or the unborn child.

 Obtain special instructions before use • Do not handle until all safety precautions have been read and understood • Do not eat, drink or smoke when using this product • Wear respiratory protection, eye protection, face protection, protective gloves, protective clothing . Do not get in eyes, on skin, or on clothing • Do not breathe dust • Use only outdoors or in a well-ventilated area • Wash face, hands and any exposed skin thoroughly after handling.

FIRST AID: Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth.

**KEEP FROM CHILDREN** 

### P0105 SIZ SY Podophyllum Resin

USP

CAS 9000-55-9

**CAUTION:** For manufacturing, processing, repacking, or for prescription compounding. Rx only. Read and understand the label and Safety Data Sheet (SDS) prior to use.

DOT: UN2811, Toxic solid, organic, n.o.s. (podophyllum resin), 6.1, PG III

Chemical Emergency: (800)424-9300

www.SpectrumChemical.com

Manufacturer/Supplier Code .....? Manufacturer Lot Number.....?

Assay (Hexane Insoluble) ....... 40.0-50.0% Distinction from Resin of Indian Podophyllum ......To pass test MAXIMUM LIMITS

Residue on Ignition ......1.5% Elemental Impurities ......As reported Residual Solvents ......To pass test

LIGHT SENSITIVE: Keep tightly closed in lightresistant containers.

Repackaged by Spectrum as:

Lot No. XQ#### B 11/J1GHS-A

## Spectrum Chemical Mfg Corp

Corporate Headquarters:

769 Jersey Ave.

New Brunswick, NJ 08901

732.214.1300

West Coast Facility:

14422 S. San Pedro St.

Gardena, CA 90248

310.516.8000