

Scientific Documentation

Collodion, 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) Technical Statements Elemental Impurities Statement Residual Solvents Statement General Label Information – Sample Label



Specification for Collodion, USP (CO120)

Item Number	CO120
Item	Collodion, USP
CAS Number	9004-70-0
Molecular Formula	
Molecular Weight	
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (PYROXYLIN; by Wt.)	5.0 %	
ALCOHOL DETERMINATION (C2H5OH)	22.0	26.0 %
SPECIFIC GRAVITY @ 25°C	0.765	0.775
ACIDITY	NOT ACID TO LITMUS	
ELEMENTAL IMPURITIES:		
COBALT (Co)	AS REPORTED	
IDENTIFICATION (A)	BURNS RAPIDLY WITH YELLOW FLAME	
IDENTIFICATION (B)	VISCID, STRINGY MASS IS PRODUCED	
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS	AS REPORTED	
MONOGRAPH EDITION		

Spectrum Chemical Mfg Corp

Corporate Headquarters:	West Coast Facility:
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000



Certificate Of Analysis

Item Number	CO120	Lot Number	1MJ0102
Item	Collodion, USP	CAS Number	9004-70-0

TFCT	SPECIFICATION			
TEST	MIN	MAX	RESULT	
ASSAY (PYROXYLIN; by Wt.)	5.0 %		6.5 %	
ALCOHOL DETERMINATION (C ₂ H ₅ OH)	22.0	26.0 %	24.0 %	
SPECIFIC GRAVITY @ 25°C	0.765	0.775	0.773	
ACIDITY	NOT ACID TO LITMUS		NOT ACID TO LITMUS	
ELEMENTAL IMPURITIES	AS REPORTED		cobalt <1 μg/g	
IDENTIFICATION (A)	BURNS RAPIDLY WITH YELLOW FLAME		BURNS RAPIDLY WITH YELLOW FLAME	
IDENTIFICATION (B)	VISCID, STRINGY MASS IS PRODUCED		VISCID, STRINGY MASS IS PRODUCED	
APPEARANCE			CLEAR COLORLESS LIQUID	
EXPIRATION DATE			01-SEP-2024	
DATE OF MANUFACTURE			11-SEP-2023	
RESIDUAL SOLVENTS	AS REPORTED		NO RESIDUAL SOLVENTS PRESENT	
MONOGRAPH EDITION			(USP-NF) 2023	

Certificate of Analysis Results Entered By:

HBERMUDEZ Hernan Bermudez 20-OCT-23 08:03:31

Spectrum Chemical Mfg Corp 14422 South San Pedro Street Gardena 90248 CA



Certificate of Analysis Results Approved By:

SHANSEN Selin Hansen 20-OCT-23 09:01:28

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.

SAFETY DATA SHEET

Revision date 16-February-2021

1. Identification	
Product identifier	
Product Name	COLLODION, USP
Other means of identification	
Product Code(s)	CO120
UN/ID no	UN2059
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	No information available
Restrictions on use	No information available
Details of the supplier of the safety	data sheet
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St	

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

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements



Revision Number 2

Harmful if swallowed Causes skin irritation Causes serious eye irritation May damage fertility or the unborn child May cause respiratory irritation May cause drowsiness or dizziness Causes damage to organs through prolonged or repeated exposure Extremely flammable liquid and vapor



Appearance Clear and viscous

Physical state Liquid

Odor Ethereal

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ .? / equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) 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 skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth In case of fire: Use CO2, dry chemical, or foam to extinguish

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

Unknown acute toxicity

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

Other information

Tends to form explosive peroxides when exposed to air and light, and especially when evaporated to dryness.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Trade secret
Ethyl Ether	60-29-7	68 - 72	*
Ethanol	64-17-5	23 - 27	*
Pyroxylin	9004-70-0	5	*

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

4. First-aid measures		
Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Explosion data Sensitivity to mechanical impac	ct none.

Sensitivity to static discharge yes.

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	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for conta	ainment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep at
temperatures below 30°C / 86°F. Keep away from heat, sparks, flame and other sources of
ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled
containers. Do not store near combustible materials. Keep in an area equipped with
sprinklers. Store in accordance with the particular national regulations. Store in accordance
with local regulations. Keep out of the reach of children. Store locked up.

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 limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Ether 60-29-7	No data available	400 ppm TWA 1200 mg/m³ TWA	-
Ethanol 64-17-5	No data available	1000 ppm TWA 1900 mg/m³ TWA	-

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, such	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
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. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and		
Physical state	Liquid	
Appearance	Clear and viscous	
Color	Colorless; light yellow	
Odor	Ethereal	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
pH	Neutral	None known
Melting point / freezing point	no data available	None known
Boiling point / boiling range	36.1 °C / 97 °F	None known
Flash point	-45 °C / -49 °F	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	36 %	
limits		
Lower flammability or explosive	1.9 %	
limits Vapor pressure	No data available	None known
Vapor pressure Vapor density	> 1	None known
Relative density	0.765 - 0.775	None known
Water solubility	Very slightly soluble in cold water	None known
Solubility(ies)	no data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
	No data available	None known
Dynamic viscosity	INU UALA AVAIIADIE	NOTE KNOWN

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information			
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.		
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.		
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).		
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.		
Acute toxicity			
Numerical measures of toxicity			
The following values are calculated ATEmix (oral) ATEmix (dermal)	I based on chapter 3.1 of the GHS document . 1,608.90 mg/kg 14,200.00 mg/kg		
Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity			

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Ether	= 1215 mg/kg (Rat)	= 20 mL/kg (Rabbit) > 20	= 32000 ppm (Rat) 4 h
60-29-7		mL/kg (Rabbit)	

Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	124.7 mg/L (Rat)4 h
Pyroxylin	> 5 g/kg (Rat)	-	-
9004-70-0			

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

Skin corrosion/irritationClassification based on data available for ingredients. Irritating to skin.Serious eye damage/eye irritationClassification based on data available for ingredients. Causes serious eye irritation.Respiratory or skin sensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.The tetre base indicates whetherNo information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol	-	Group 1 - Monograph	-	-
64-17-5		100E [2012] in alcoholic		
		beverages		
		Monograph 96 [2010] in		
		alcoholic beverages		

Legend

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. liver, respiratory system, Eyes, Skin, central nervous system, blood, Reproductive System.
No information available.
No information available.
No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl Ether 60-29-7	-	LC50: =2560mg/L (96h, Pimephales promelas) LC50: >10000mg/L (96h, Lepomis macrochirus)	-	EC50: =165mg/L (24h, Daphnia magna)
Ethanol 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =10800mg/L (24h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)

Persistence and degradability	
Bioaccumulation	

No information available. Inherently biodegradable.

Component Information

Chemical name	Partition coefficient
Ethyl Ether 60-29-7	0.82
Ethanol 64-17-5	-0.32

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

14. Transport information

DOT UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Marine Pollutant Description: Emergency Response Guide Number	UN2059 Nitrocellulose, solution, flammable 3 II 198, IB2, T4, TP1, TP8 Severe Marine Pollutant UN2059, Nitrocellulose, solution, flammable, 3, II 127
<u>TDG</u> UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN2059 Nitrocellulose solution, flammable 3 II UN2059, Nitrocellulose solution, flammable, 3, II
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN2059 Nitrocellulose solution, flammable 3 198 II UN2059, Nitrocellulose solution, flammable, 3, II
ICAO (air) UN-No: Proper Shipping Name: Hazard class Packing Group: Special Provisions Description:	UN2059 Nitrocellulose solution, flammable 3 I A3, A91 UN2059, Nitrocellulose solution, flammable, 3, I
IATA_ UN number Proper Shipping Name: Transport hazard class(es) Packing group Description:	UN2059 Nitrocellulose solution, flammable 3 II UN2059, Nitrocellulose solution, flammable, 3, II
IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Description	UN2059 Nitrocellulose solution, flammable 3 II F-E, S-D 198 NP1 UN2059, Nitrocellulose solution, flammable, 3, II, (-45°C c.c.)

<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Special Provisions Description: Labels	UN2059 Nitrocellulose solution, flammable 3 II D 198, 531, 640C UN2059, Nitrocellulose solution, flammable, 3, II 3
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description: Labels	2059 Nitrocellulose solution, flammable 3 II D (B) 198, 531, 640C 2059, Nitrocellulose solution, flammable, 3, II, (B) 3
ADN UN/ID No Proper shipping name Transport hazard class(es) Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) ventilation Equipment Requirements	UN2059 Nitrocellulose solution, flammable 3 II D 198, 531, 640C UN2059, Nitrocellulose solution, flammable, 3, II 3 1 L VE01 PP, EX, A

15. Regulatory information

International Inventories

TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Does not Comply
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethyl Ether	100 lb final RQ	-
60-29-7	45.4 kg final RQ	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards Flammability 4 Instability 0 Physical and che <u>HMIS</u> Health hazards Flammability 4 Physical hazards Personal protect Chronic Hazard Star	emical properties - 2 * 5 0 ion X	Chronic Health Hazard		
	abbreviations and acro	0	afety data sheet	
	8: EXPOSURE CONTRO	OLS/PERSONAL PR		STEL (Short Torm Evpoque Limit)
Ceiling	TWA (time-weighted av Maximum limit value	verage)	STEL	STEL (Short Term Exposure Limit)
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal				

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date	16-February-2021
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.

End of Safety Data Sheet

spectrum

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
CO120	Collodion, 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: Spectrum-New Brunswick, NJ: 2020632 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 <u>qualityassurance@spectrumchemical.com</u>

Sincerely,

Oulu Umy

Oralia Chavez Quality Assurance Specialist

spectrum

CO120, Collodion, USP

Source Statement

The above mentioned catalog item is manufactured from plant origin (Camphor tree – *Cinnamomum camphora*). 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.

Shelf Life Statement

The above mentioned catalog item is typically assigned a shelf life of 12 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

spectrum®

RE: Elemental Impurities – Collodion, USP (Cat# CO120)

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
Cobalt	Со	2A	< 1 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 <u>TechServices@spectrumchemical.com</u>.

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

14422 South San Pedro Street Gardena, California 90248 PHONE 310.516.8000 FAX 310.516.9843

AN ISO 9001:2015 REGISTERED COMPANY

spectrum

RE: Residual Solvents – Collodion, USP (Cat# CO120)

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 the USP <467> Residual Solvents and the ICH Q3C Residual Solvents Guideline. No Class 1, Class 2, Class 3 or other solvents are used or produced in the manufacture of this product.

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 <u>TechServices@spectrumchemical.com.</u>

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

14422 South San Pedro Street Gardena, California 90248 PHONE 310.516.8000 FAX 310.516.9843

AN ISO 9001:2015 REGISTERED COMPANY

www.spectrumchemical.com

spectrum®

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.



 Externely nammable lique and vapor * rafmui il swalloved-Causes serious eye initiation • Causes skin irritation • May cause respiratory irritation • May cause drowsiness or dizziness • Causes damage to organs through prolonged or repeated exposure • May damage fertility or the unborn child • Tends to form explosive peroxides when exposed to air, light and evaporated to dryness.
Obtain special instructions before use • Do not handle until all safety protations have been read and understood • Keep away from heat, sparks, open flames, hot surfaces • No smoking • Ground container and receiving equipment • Use explosion-proof equipment • Use only nonsparking tools • Take precautionary measures against static discharge • Do not ead, drink or smoke when using this product • Weat protective v gloves, protective clothing, eye protection, face protection • Do not breathe mist or vapors • Use only outdoors or in a well-ventilated area

0000-00-00

Date:

Exp.

 Wash face, hands and any exposed skin thoroughly after handling, FIRST AID: Call a POISON CENTER or physician if you feel unwell. IF IN EYES. Rines cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye rintation persists: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rines skin with water. Wash contaminated clothing before reuse. If skin irritation persists: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. IN CASE OF FIRE: Use dry chemical, water stray, alcohor-levisiant floam or CQ, to extinguist.



co120 siz sy Collodion

USP

CAS 9004-70-0

CAUTION: For manufacturing, processing or repacking. Read and understand the label and Safety Data

Sheet (SDS) prior to use.

DOT: UN2059, Nitrocellulose, solution, 3, PG II

Chemical Emergency: (800)424-9300 www.SpectrumChemical.com

Components:	
Ethyl Ether	CAS 60-29-7
Ethanol	CAS 64-17-5
Pyroxylin	CAS 9004-70-0

Assay (Pyroxylin; by Wt.) Alcohol Determination (C ₂ H ₅ OH)	22.0-26.0%
Specific Gravity @ 25°C	0.765-0.775
MAXIMUM LIMITS	
Acidity	To pass test
Elemental Impurities	As reported
Residual Solvents	To pass test

Store below 30°C.

WARNING: Cancer and Reproductive Harmwww.P65Warnings.ca.gov

R 8/H3GHS ? Lot No. XQ####

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