


SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	FLEXIBLE COLLODION, USP
PRODUCT CODE	0625
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
RECOMMENDED USES	Manufacturing and Compounding
RESTRICTIONS ON USE	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Flammable Liquid (Category 2) Eye Irritation (Category 2A) Specific Target Organ Toxicity - Single Exposure (Category 3) - narcotic effects Specific Target Organ Toxicity - Repeated Exposure (Category 2) - blood, kidneys and nervous system Acute Toxicity - Oral (Category 4)
PICTOGRAM	
SIGNAL WORD	Danger
HAZARD STATEMENT(S)	Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure: vapors and prolonged absorption through skin could cause damage to blood, kidneys and nervous system. Harmful if swallowed.
ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS	Repeated exposure may cause skin dryness or cracking.

PRECAUTIONARY STATEMENT(S)
Prevention

Keep away from heat, sparks, open flames and hot surfaces.

No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof equipment.

Use non-sparking tools.

Take action to prevent static discharges.

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 hands thoroughly after handling. Do not touch eyes.

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

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Response

IN CASE OF FIRE: Use dry chemical, CO₂, alcohol resistant foam.

IF ON SKIN (HAIR): Take off immediately all contaminated clothing. Rinse affected areas with water/shower.

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 help.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.

IF SWALLOWED: Immediately call a poison center. Get medical help. Rinse mouth.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

Get medical help if you feel unwell.

Storage

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Disposal

Dispose of contents and container in accordance with local regulations.

HMIS CLASSIFICATION
Health Hazard

2

Flammability

4

Reactivity

0

Personal Protection

G

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
CHEMICAL NAME

Not applicable

BOTANICAL NAME

Not applicable

SYNONYM

Not applicable

CHEMICAL FORMULA

Not applicable

CHEMICAL FAMILY

Not applicable

CAS NUMBER

Not applicable

ALTERNATE CAS NUMBER

Not applicable

MOLECULAR WEIGHT

Not applicable

COMPOSITION

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
CAMPHOR	76-22-2	200-945-0	~ 2
CASTOR OIL	8001-79-4	232-293-8	~ 3
ETHANOL	64-17-5	200-578-6	~ 25
ETHER	60-29-7	200-467-2	~ 65
PYROXYLIN	9004-70-0	618-392-2	~ 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Irrigate immediately. Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
IN CASE OF SKIN CONTACT	Remove contaminated clothes. Wash promptly with soap & water for 15 minutes. If irritation persists seek medical aid.
IF SWALLOWED	Medical attention immediately. Wash out mouth with water. Do not induce vomiting without medical advice.
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Refer for medical attention.
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
FLAMMABLE PROPERTIES	Highly flammable: will be easily ignited by heat, sparks or flames.
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	Small fire: dry chemical, CO ₂ . Large fire: dry chemical, CO ₂ , alcohol resistant foam. Do not get water inside containers. Do not use water jet or water-based fire extinguishers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers.
CLEANUP PROCEDURE	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.
REFERENCE TO OTHER SECTIONS	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight and moisture.

Preserve in tight containers, at a temperature not exceeding 30°C, remote from fire.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION
Chemical Name: CAMPHOR CAS #: 76-22-2

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	N/L	2	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	2	N/L	3	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	2	N/L	N/L	200 mg/m ³	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	2	12	3	19	N/L	N/L	N/A	N/A
HSE	UK	2	13	3	19	N/L	N/L	N/A	N/A
GESTIS	Austria	2	13	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Belgium	2 (1)	12 (1)	3 (1)(2)	19 (1)(2)	N/L	N/L	N/A	(1) synthetic (2) 15 minutes average value
GESTIS	Canada - Ontario	2	N/L	3	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Québec	2	12	3	19	N/L	N/L	N/A	N/A
GESTIS	Denmark	2	12	4	24	N/L	N/L	N/A	N/A
GESTIS	Finland	0,3	1,9	0,9 (1)	5,7 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	2	12	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Ireland	2	12	3 (1)	18 (1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Latvia	N/L	3	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	2	12	3	19	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	12	N/L	18	N/L	N/L	N/A	N/A
GESTIS	Romania	1	6	3 (1)	18 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	2	12	3	19	N/L	N/L	N/A	N/A
GESTIS	South Korea	2	12	3	18	N/L	N/L	N/A	N/A
GESTIS	Spain	2	13	3	19	N/L	N/L	N/A	N/A
GESTIS	Switzerland	2	13	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: CASTOR OIL CAS #: 8001-79-4

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: ETHANOL CAS #: 64-17-5

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	A4 (not classifiable as a human carcinogen)
NIOSH	USA	1000	1900	N/L	N/L	3300*	N/L	N/A	*10%LEL (See:64175)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	1000	1920	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Austria	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Belgium	1000	1907	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Ontario	N/L	N/L	1000	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Québec	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Denmark	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Finland	1000	1900	1300 (1)	2500 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	1000	1900	5000	9500	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	200	380	800 (1)	1520 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	200	380	800 (1)	1520 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	1900	N/L	7600	N/L	N/L	N/A	N/A
GESTIS	Ireland	N/L	N/L	1000 (1)	N/L	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Latvia	N/L	1000	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Romania	1000	1900	5000 (1)	9500 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Korea	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	N/L	N/L	1000	1910	N/L	N/L	N/A	N/A
GESTIS	Sweden	500	1000	1000 (1)	1900 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	500	960	1000	1920	N/L	N/L	N/A	N/A
GESTIS	Netherlands	N/L	260	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: ETHER CAS #: 60-29-7

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	400	1200	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	400	N/L	500	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	1900ppm*	N/L	N/A	*10% LEL (See:60297)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	400	1210	500	1520	N/L	N/L	N/A	N/A
HSE	UK	100	310	200	620	N/L	N/L	N/A	N/A
GESTIS	Austria	100	300	200	600	N/L	N/L	N/A	N/A
GESTIS	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Belgium	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada - Ontario	400	N/L	500	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Québec	400	1210	500	1520	N/L	N/L	N/A	N/A
GESTIS	Denmark	100	303	200	606	N/L	N/L	N/A	N/A
GESTIS	European Union	100 (2)	308 (2)	200 (1) (2)	616 (1) (2)	N/L	N/L	N/A	(1) 15 minutes average value; (2) Indicative Occupational Exposure Limit Value (IOELV)
GESTIS	Finland	100	310	200 (1)	620 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	100	308	200	616	N/L	N/L	N/A	Restrictive statutory limit values
GESTIS	Germany (AGS)	400	1200	400 (1)	1200 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	400	1200	400 (1)	1200 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	308	N/L	616	N/L	N/L	N/A	N/A
GESTIS	Ireland	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Italy	100	308	200	616	N/L	N/L	N/A	N/A
GESTIS	Japan (MHLW)	400	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Japan (JSOH)	400	1200	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	New Zealand	400	1210	500	1520	N/L	N/L	N/A	N/A
GESTIS	China	N/L	300	N/L	500 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Poland	N/L	300	N/L	600	N/L	N/L	N/A	N/A
GESTIS	Romania	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	400	1210	500	1520	N/L	N/L	N/A	N/A
GESTIS	South Korea	400	1200	500	1500	N/L	N/L	N/A	N/A
GESTIS	Spain	100	308	200	616	N/L	N/L	N/A	N/A

GESTIS	Sweden	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	400	1200	400	1200	N/L	N/L	N/A	N/A
GESTIS	Netherlands	N/L	308	N/L	616	N/L	N/L	N/A	N/A
GESTIS	Turkey	100	308	200 (1)	616 (1)	N/L	N/L	N/A	(1) 15 minutes average value

Chemical Name: PYROXYLIN CAS #: 9004-70-0

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES

 Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³
PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE

Liquid

DESCRIPTION

Clear, or slightly opalescent, viscous liquid. Is colorless or slightly yellow, and has the odor of ether. The strong odor of camphor becomes noticeable as the ether evaporates.

SOLUBILITY

Slightly soluble in water.

ODOR

Odor of ether/alcohol

FLAMMABILITY

Highly flammable

AUTO-IGNITION TEMPERATURE

Not available

BOILING POINT

36.11 °C, 97°F

DECOMPOSITION TEMPERATURE

Not available

EVAPORATION RATE	< 1	EXPLOSIVE LIMIT	Not available	FLASH POINT	-45°C, -49°F (closed cup)
log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	0.6 %	MELTING/FREEZING POINT	Not available
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	pH	Not available
RELATIVE DENSITY (WATER = 1)	0.7671	SPECIFIC GRAVITY	0.770 - 0.790	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	36 %
VAPOR DENSITY (AIR = 1)	>1	VAPOR PRESSURE	Not available	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established
CHEMICAL STABILITY	Stable under recommended storage conditions
INCOMPATIBLE MATERIALS	Strong oxidants, acids, bases, amines, halogens, interhalogens, sulfur and sulfur compounds. Contains 65% ether that can form explosive peroxides under the influence of light and air. Reacts violently with halogens, interhalogens, sulfur compounds and oxidants. This generates fire and explosion hazard. Attacks plastics and rubber.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur
HAZARDOUS POLYMERIZATION	Will not occur
POSSIBILITY OF HAZARDOUS REACTION	Not established
CONDITIONS TO AVOID	Heat, sparks, flames and other sources of ignition. Avoid allowing unmodified resin to become dry.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	ATE of mixture (calculated): Oral: Rat: LD50: (mg/kg): 1711 Dermal: Rabbit LD50: (mg/kg): 2136 Inhalation: Rat: LD50: (ppm/4hr): 35438
SKIN CORROSION/IRRITATION	Contains camphor, collodion, ethanol and ether; all very irritating compounds. ETHER: Narcosis (HE8) Irritation-Eye, Nose, Throat, Skin ---Mild (HE16) Based on available data, the classification criteria are not met.
SERIOUS EYE DAMAGE/EYE IRRITATION	Contains camphor, collodion, ethanol and ether; all very irritating compounds. ETHER: Narcosis (HE8) Irritation-Eye, Nose, Throat, Skin ---Mild (HE16)
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.
SKIN SENSITIZATION	Due to lack of data the classification is not possible.

GERM CELL MUTAGENICITY

Based on available data, the classification criteria are not met.

CARCINOGENICITY

OSHA No component of this product, present at $\geq 0.1\%$, is listed.

NTP No component of this product, present at $\geq 0.1\%$, is listed.

IARC No component of this product, present at $\geq 0.1\%$ has been evaluated.

California Proposition 65 No component of this product, present at $\geq 0.1\%$ is known to the State of California to cause cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY INFORMATION

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY

Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Prolonged exposure to vapors in concentrations in excess of TLV can cause damage to kidneys, blood and nervous system.

ASPIRATION HAZARDS

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF EXPOSURE
ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Health Hazards (acute and chronic):

Vapors irritating to eyes, nose and throat. Liquid irritating to eyes and skin. Prolonged and repeated exposure to vapor concentrations in excess of TLV or through prolonged absorption through skin may cause damage to blood, kidneys and nervous system.

Main side effect of collodion is the ethyl ether fumes. Once the collodion has cured, there are no other vapors.

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed. Ingestion health risks and symptoms of exposure: Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss.

Skin May be harmful if absorbed through skin. May cause skin irritation. No known significant effects or critical hazards.

Eyes Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION
ECOTOXICITY

EC50: 48 Hr: Crustacea: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

Not available

BIOACCUMULATIVE POTENTIAL

Not available

MOBILITY IN SOIL

Slightly soluble in water.

OTHER ADVERSE EFFECTS

Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS
DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION
UN PROPER SHIPPING NAME

NITROCELLULOSE SOLUTION, FLAMMABLE

UN NUMBER

2059

CLASS

3

PACKING GROUP

II

AUSTRALIA
HAZCHEM

2Y, 2YE

EU
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Listed

ENVIRONMENTAL HAZARDS

Not available

SPECIAL SHIPPING INFORMATION

Not applicable

SECTION 15: REGULATORY INFORMATION
UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know			California Prop 65
			Appendix A	Appendix B	Pennsylvania	New Jersey	Massachusetts	
ETHER, 60-29-7	X	N/L	N/L	N/L	X	X	X	N/L
ETHANOL, 64-17-5	N/L	N/L	N/L	N/L	X	X	X	N/L
PYROXYLIN, 9004-70-0	N/L	N/L	N/L	N/L	X	X	X	N/L
CAMPHOR, 76-22-2	N/L	N/L	N/L	N/L	X	X	X	N/L
CASTOR OIL, 8001-79-4	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemicals
ETHER, 60-29-7	N/L	N/L	N/L	N/L	N/L	N/L
ETHANOL, 64-17-5	N/L	N/L	N/L	N/L	N/L	N/L
PYROXYLIN, 9004-70-0	N/L	N/L	N/L	N/L	N/L	N/L
CAMPHOR, 76-22-2	N/L	N/L	N/L	N/L	N/L	N/L
CASTOR OIL, 8001-79-4	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ETHER, 60-29-7	N/L	N/L	N/L	N/L	N/L	N/L	N/L
ETHANOL, 64-17-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L
PYROXYLIN, 9004-70-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L
CAMPHOR, 76-22-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L
CASTOR OIL, 8001-79-4	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL AGREEMENT

Not applicable

SECTION 16: OTHER INFORMATION
REFERENCES

Available upon request

ABBREVIATIONS AND ACRONYMS

ACGIH - American Conference of Governmental Industrial Hygienists; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **CAESAR** – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; **CAS** – Chemical Abstract Service; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **EC50** – Effective Concentration, 50%; **EPA** – Environmental Protection Agency; **GHS** – Global Harmonized System; **HMIS** – Hazardous Materials Information System; **HSE** – Health and Safety Executive; **HSIS** – Hazardous Substances Information System; **IARC** – International Agency for Research on Cancer; **IDLH** - Immediately Dangerous to Life or Health; **IRFMN** – Ready Biodegradability Model; **ISS** – Istituto Superiore Sanità; **LC50** – Lethal Concentration, 50%; **LD50** – Lethal Dose, 50%; **MSHA** - Mine Safety and Health Administration; **NIOSH** – National Institute for Occupational Safety and Health; **NTP** – National Toxicology Program; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **QSAR** – Quantitative Structure-activity relationship; **REL** - Recommended Exposure Limit; **SARA** – Superfund Amendments and Reauthorization Act; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TWA** – Time Weighted Average; **WHMIS** – Workplace Hazardous Materials Information System

LAST REVISION

03/2023

SUPERSEDES

05/2020

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.