

**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME</b>	PEG 3350 DIN 02358034
<b>PRODUCT CODE</b>	2517
<b>SUPPLIER</b>	<b>MEDISCA Inc.</b> Tel.: 1.800.932.1039   Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 <b>MEDISCA Pharmaceutique Inc.</b> 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 <b>MEDISCA Australia PTY LTD</b> Tel.: 1.300.786.392   Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
<b>EMERGENCY PHONE</b>	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126
<b>USES</b>	Treatment of occasional constipation

**SECTION 2: HAZARDS IDENTIFICATION**

<b>GHS CLASSIFICATION</b>	Based on available data, the classification criteria are not met.			
<b>PICTOGRAM</b>	Not Applicable			
<b>SIGNAL WORD</b>	Not applicable			
<b>HAZARD STATEMENT(S)</b>	Not applicable			
<b>AUSTRALIA-ONLY HAZARDS</b>	Repeated exposure may cause skin dryness or cracking.			
<b>PRECAUTIONARY STATEMENT(S)</b>	<b>Prevention</b>	Not applicable		
	<b>Response</b>	Not applicable		
	<b>Storage</b>	Not applicable		
	<b>Disposal</b>	Not applicable		
<b>HMIS CLASSIFICATION</b>	<b>Health Hazard</b>	1	<b>Flammability</b>	1
	<b>Reactivity</b>	0	<b>Personal Protection</b>	B

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>CHEMICAL NAME</b>	Poly (oxy-1, 2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-
<b>BOTANICAL NAME</b>	Not applicable
<b>SYNONYM</b>	Carbowax 3350; Macrogol
<b>CHEMICAL FORMULA</b>	$H(OCH_2CH_2)_nOH$
<b>CAS NUMBER</b>	25322-68-3
<b>ALTERNATE CAS NUMBER</b>	Not applicable

**MOLECULAR WEIGHT**

3015 - 3685

**COMPOSITION**

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
POLYETHYLENE GLYCOL	25322-68-3	100

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**

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

**IN CASE OF SKIN CONTACT**

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

**IF SWALLOWED**

Call a physician. 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. Call a physician.

**SYMPTOMS AND EFFECTS**

Not expected to present a significant hazard under anticipated conditions of normal use.

**SECTION 5: FIREFIGHTING MEASURES****SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

Not applicable

**FLAMMABLE PROPERTIES**

May be combustible at high temperature

**HAZARDOUS COMBUSTION PRODUCTS**

Under fire conditions, hazardous fumes will be present.

**EXTINGUISHING MEDIA**

**Small fire:** dry chemical, CO<sub>2</sub> or water spray. **Large fire:** dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

**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 dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**METHODS & MATERIAL FOR CONTAINMENT**

On land, sweep or shovel into suitable containers. Minimize generation of dust.

**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.

**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.

**STORAGE CONDITIONS**

Store in original container, tightly sealed container, protected from direct sunlight, in a dry and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store between 15-30°C (59-86)°F. Preserve in tight containers, protected from direct sunlight. Avoid exposure to excessive heat.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**
**Chemical Name:** POLYETHYLENE GLYCOL **CAS #:** 25322-68-3

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	10 mg/m <sup>3</sup>	N/L	N/L	-	-	-
Safe Work Australia HSIS	N/L	N/L	N/L	-	-	-
HSE	N/L	N/L	N/L	-	-	-

N/L = Not Listed

**EXPOSURE GUIDELINES**

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m<sup>3</sup>

**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.

**SPECIFIC ENGINEERING CONTROLS**

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**PHYSICAL STATE**

Solid

**DESCRIPTION**

White granular, powder, or flake.

**SOLUBILITY**

Freely soluble in water; soluble in acetone, in alcohol, in chloroform, in ethylene glycol monoethyl ether, in ethyl acetate, and in toluene; insoluble in ether and in hexane.

**ODOR**

Mild odor

**FLAMMABILITY**

May be combustible at high temperature

**ODOR THRESHOLD**

Not available

**pH**

4.5 - 7.5 (5%)

**MELTING POINT**

 (53-57)°C,  
(127.4-134.6)°F

**BOILING POINT**

&gt;200°C, &gt;392°F

**FREEZING POINT**

 (53-57)°C,  
(127.4-134.6)°F

**FLASH POINT**

 246 °C, 474.8 °F  
(Closed Cup)

**SPECIFIC GRAVITY**

1.111 (60°C)

**EVAPORATION RATE**

Not available

**EXPLOSIVE LIMIT**

Not available

**UPPER FLAMMABLE/  
EXPLOSIVE LIMIT(S)**

Not available

**LOWER FLAMMABLE/  
EXPLOSIVE LIMIT(S)**

Not available

**VAPOR PRESSURE**

 < 0.01 mmHg  
(20°C)

<b>VAPOR DENSITY (AIR = 1)</b>	> 10	<b>RELATIVE DENSITY (WATER = 1)</b>	Not available	<b>log P (OCTANOL-WATER)</b>	Not available
<b>AUTO-IGNITION TEMPERATURE</b>	Not available	<b>DECOMPOSITION TEMPERATURE</b>	>200°C, >392°F	<b>VISCOSITY</b>	90.8 cSt (100°C)

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Not established
<b>STABILITY</b>	Stable under recommended storage conditions
<b>MATERIALS TO AVOID</b>	Strong oxidants, acids and bases
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Toxic fumes of carbon monoxide, carbon dioxide and other gases may occur
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur
<b>POSSIBILITY OF HAZARDOUS REACTION</b>	Not established
<b>CONDITIONS TO AVOID</b>	Moisture, sunlight and extreme temperatures

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	Oral: Rat: LD50: (mg/kg): > 10 000 Dermal: Rabbit LD50: (mg/kg): >20 000 Inhalation: Rat: LD50: (mg/L/4hr): Not available
<b>SKIN CORROSION/IRRITATION</b>	Based on available data, the classification criteria are not met.
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Based on available data, the classification criteria are not met.
<b>RESPIRATORY OR SKIN SENSITIZATION</b>	Hypersensitivity to macrogols is uncommon but both immediate urticarial reactions and delayed allergic contact dermatitis have been reported. Based on available data, the classification criteria are not met.
<b>GERM CELL MUTAGENICITY</b>	In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative. Based on available data, the classification criteria are not met.
<b>CARCINOGENICITY</b>	<b>OSHA</b> POLYETHYLENE GLYCOL is not listed. <b>NTP</b> POLYETHYLENE GLYCOL is not listed. <b>IARC</b> POLYETHYLENE GLYCOL is not evaluated. <b>California Proposition 65</b> This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
<b>ADDITIONAL CARCINOGENICITY INFORMATION</b>	Did not cause cancer in laboratory animals. Based on available data, the classification criteria are not met.
<b>REPRODUCTIVE TOXICITY</b>	For similar material(s): In animal studies, did not interfere with reproduction. Based on available data, the classification criteria are not met.
<b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</b>	Due to lack of data the classification is not possible.

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE**

Recent findings of kidney failure and death in burn patients, as well as some studies using animal burn models, suggest that polyethylene glycol may have been a factor. The use of topical applications containing this material may not be appropriate in severely burned patients or individuals with impaired renal function. Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**ASPIRATION HAZARDS**

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

**SIGNS AND SYMPTOMS OF EXPOSURE**

Not expected to present a significant hazard under anticipated conditions of normal use. Macrogols appear to have relatively low toxicity, although any toxicity appears to be greatest with the macrogols of low molecular weight. They may cause stinging when used topically, especially on mucous membranes, and have been associated with hypersensitivity reactions such as urticaria. Hyperosmolality, metabolic acidosis, and renal failure have been reported after topical application of macrogols to burn patients. Topical preparations with a macrogol base should therefore be used with caution in patients with renal impairment and/or large areas of raw surfaces, burns, or open wounds.

Hypersensitivity to macrogols is uncommon but both immediate urticarial reactions and delayed allergic contact dermatitis have been reported following the topical application of preparations with a macrogol vehicle or base. An anaphylactic reaction has been associated with the ingestion of macrogols in a multivitamin tablet. The manufacturers of preparations containing macrogols and electrolytes for bowel cleansing have reported isolated instances of skin reactions and rhinorrhoea.

Symptoms related to the physical, chemical, and toxicological characteristics  
Nausea. Vomiting. Diarrhea. Bloating. Cramps. Gas. Taste changes. Irregular heartbeat.

Medical conditions aggravated by exposure  
Gastrointestinal tract obstruction. Gastric retention. Colitis.

**Acute toxicity**

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

**POTENTIAL HEALTH EFFECTS**

<b>Inhalation</b>	At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.
<b>Ingestion</b>	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small quantities.
<b>Skin</b>	May be harmful if absorbed through skin. Prolonged contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts.
<b>Eyes</b>	May cause slight temporary eye irritation. Corneal injury is unlikely.

## SECTION 12: ECOLOGICAL INFORMATION

**TOXICITY**

LC50: 96 Hr: Fish: (mg/L): >1000  
IC50: 72 Hr: Algae: (mg/L): Not available  
EC50: 48 Hr: Daphnia magna: (mg/L): Not available

**PERSISTENCE AND DEGRADABILITY**

Material is expected to be readily biodegradable.  
BOD5=5-17%; BOD10=34.5-38%; BOD20=40.2-70%

**BIOACCUMULATIVE POTENTIAL**

No bioconcentration is expected because of the relatively high water solubility.

**MOBILITY IN SOIL**

Freely soluble in water

**OTHER ADVERSE EFFECTS**

Not available

This product is not intended to be released into the environment

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL**

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

**SECTION 14: TRANSPORT INFORMATION**
**UNITED STATES & CANADA**
**UN PROPER SHIPPING NAME** Not dangerous good

**UN NUMBER** Not applicable

**CLASS** Not applicable

**PACKING GROUP** Not applicable

**AUSTRALIA**
**UN PROPER SHIPPING NAME** Not dangerous good

**UN NUMBER** Not applicable

**CLASS** Not applicable

**PACKING GROUP** Not applicable

**HAZCHEM** Not Applicable

**ENVIRONMENTAL HAZARDS** Not available

**SPECIAL SHIPPING INFORMATION** Not applicable

**SECTION 15: REGULATORY INFORMATION**

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Pennsylvania	Right-to-know		California Prop 65
			Appendix A	Appendix B		New Jersey	Massachusetts	
POLYETHYLENE GLYCOL 25322-68-3	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 Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
POLYETHYLENE GLYCOL 25322-68-3	N/L	N/L	N/L

**SECTION 16: OTHER INFORMATION**
**REFERENCES**

Available upon request

**ABBREVIATIONS AND ACRONYMS**

**CAS** – Chemical Abstract Service; **GHS** – Global Harmonized System; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **TWA** – Time Weighted Average; **HSIS** – Hazardous Substances Information System; **STEL** – Short Term Exposure Limit; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **LD50** – Lethal Dose, 50%; **IARC** – International Agency for Research on Cancer; **NTP** – National Toxicology Program; **WHMIS** – Workplace Hazardous Materials Information System; **SARA** – Superfund Amendments and Reauthorization Act; **EPA** – Environmental Protection Agency; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **HMIS** – Hazardous Materials Information System; **NIOSH** – National Institute for Occupational Safety and Health; **MSHA** - Mine Safety and Health Administration; **ACGIH** - American Conference of Governmental Industrial Hygienists; **IDHL** - Immediately Dangerous to Health or Life; **TLV** – Threshold Limit Value; **HSE** – Health and Safety Executive; **REL** - Recommended Exposure Limit

**LAST REVISION**

04/2017

**SUPERSEDES**

12/2016

**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.