acc. to OSHA HCS



Printing date 01/20/2021

Version 5

Reviewed on 01/20/2021

1 Identification

Product identifier

Trade name: Liquid Polibar Plus

Article number: L168; P650PPS; 900203; 705667

Application of the substance / the mixture:

Radiopaque contrast media for diagnostic imaging of the gastrointestinal tract White suspension having a sweet odor and no grittiness. Route of Administration: Oral and Rectal. Oral: 1900mL Rectal: 650mL & 1900mL

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

E-Z-EM Canada Inc. 11065 boulevard L-H. Lafontaine Montréal, QC, Canada H1J 2Z4 tel: (514) 353-5820

Information department:

B-Lands Consulting WTC, 5 Place Robert Schuman, BP 1516 38025 Grenoble, FRANCE Tel: +33 476 295 869 Fax: +33 476 295 870 Email: clients@reachteam.eu www.reachteam.eu

Emergency telephone number:

EMERGENCY CONTACT: Health: 1-800-257-5181 U.S. Transport - Chemtrec: 1-800-424-9300 International Transport - Chemtrec: 1-703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Label elements GHS label elements Not applicable.

Hazard pictograms Not applicable.

Signal word Not applicable.

Hazard statements Not applicable. Additional Information: WHMIS-symbols: Not Hazardous. Not controlled under WHIMS (Canada).

Classification system: NFPA ratings (scale 0 - 4)





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HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
		Fire = 0
REACTIVITY	0	Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Hazardous Components:		
7727-43-7	Barium sulphate	58.0% w/w
Information on components:		
7727-43-7	Barium sulphate	58.0% w/w

4 First-aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Use extinguishing measures appropriate to local circumstances and the environment. CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment:

Firefighters should wear adequate personal protective equipment with protection of respiratory tract (selfcontained breathing apparatus) (SCBA).

In addition, firefighters should wear flame and chemicals resistant clothing, boots and gloves.

Additional information

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses. Dike for water control. Evacuate personell to an upwind direction. Remove uneeded material.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Remove persons from danger area.



acc. to OSHA HCS

Printing date 01/20/2021

Version 5

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Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations. Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

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.

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Protect against physical damage.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:			
7727-43-7 Barium sulphate	7727-43-7 Barium sulphate		
CAD AB OEL (Canada)	Long-term value: 10 mg/m ³		
CAD BC OEL (Canada)	Long-term value: 3* ; 10** mg/m³ *: Respirable Fraction; **: Total Dust		
CAD MB OEL (Canada)	Long-term value: 10 mg/m³		
CAD ON OEL (Canada)	Long-term value: 10 mg/m³		
OEL (QUE) (Canada)	Long-term value: 5* ; 10** mg/m³ *: Respirable Fraction; **: Total Dust		
ACGIH (USA)	Long-term value: 10 mg/m³		
ACGIH 2014 TLV (USA)	Long-term value: 5 mg/m³ Total Dust, no asbestos and <1% crystalline silica		
CAL/OSHA PEL (USA)	Long-term value: 5* ; 10** mg/m³ *:Respirable Fraction; **:Total Dust		
NIOSH/GUIDE - REL (USA)	Long-term value: 5* ; 10** mg/m³ *: Respirable Fraction; **: Total Dust		
OSHA PEL₁ (USA)	Long-term value: 5* ; 15** mg/m³ *: Respirable Fraction; **:Total Dust		

acc. to OSHA HCS

Printing date 01/20/2021

Version 5

Reviewed on 01/20/2021

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Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Form: Color:	Suspension White
Odor: Odor threshold:	Sweet Odour Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
Flash point:	Not determined.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Not determined.





acc. to OSHA HCS Version 5

Reviewed on 01/20/2021

Printing date 01/20/2021

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Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Flammability Limits: Lower: Not Determined. Upper: Not Determined. **Explosion limits:** Not determined. Lower: Upper: Not determined. **Oxidizing properties** Not determined. Vapor pressure: Not determined. **Density:** Not determined. **Relative density** Not determined. Vapor density Not determined. **Evaporation rate** Not determined. Solubility in / Miscibility with Not determined. Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: **Dynamic:** 950-1675 cPs **Kinematic:** Not determined. Solids content: 80.0 % Other information No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: Reactive metals.

Hazardous decomposition products:

Sulfur oxides (SOx) Barium Oxide (BaO) Other unidentified organic compounds.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:			
7727-43	7727-43-7 Barium sulphate		
Oral	Oral LD50 > 20000 mg/kg (Rat) (External SDS)		
9000-01-5 Gum arabic			
Oral	LD50	> 16000 mg/kg (Rat) (RTEC)	



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50-70-4 D-glucitol			
	LD50	15900 mg/kg (Rat)	
11138-66-2 Xanthan gum			
Oral	LD50	> 5000 mg/kg (Rat)	
9000-07-1	Carrage	enan	
Oral	LD50	> 5000 mg/kg (Rat)	
Dermal	LD50	> 2000 mg/kg (Rabbit)	
Inhalative	LC50/4h	> 0.93 mg/L (Rat) (Maximum attainable concentration - zero mortality)	
590-00-1 F	Potassiur	n sorbate	
Oral	LD50	>2000 mg/kg (unknown)	
Dermal	LD50	>2000 mg/kg (unknown)	
532-32-1 \$	Sodium B	enzoate	
	LD50	3140 mg/kg (Rat) (Exernal SDS)	
		im chloride	
Oral	LD50	2600 mg/kg (Rat)	
57-55-6 propane-1,2-diol			
Oral	LD50	19400 - 36000 mg/kg (Rat) (Literature)	
	LD50	20800 mg/kg (Rabbit) (Literature)	
		, Anhydrous	
Oral	LD50	5040 mg/kg (Mouse)	
		3000 mg/kg (Rat) (RTEC)	
9005-65-6 Polysorbate 80			
-	LD50	42200 mg/kg (Rat) (External SDS)	
	6132-04-3 Trisodium citrate dihydrate		
Oral	LD50	> 8000 mg/kg (Rat) (IUCLID - Anhydrous substance)	
	LD50 iv	170 mg/kg (Mouse)	
		449 mg/kg (Rabbit)	
	LD50 ip	1364 mg/Kg (Mouse)	
		1548 mg/Kg (Rat)	

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Carcinoge	nic categories			
IARC (International Agency for Research on Cancer)				
9000-07-1	Carrageenan	3		
6155-57-3	Saccharin Sodium dihydrate	Yes: Carc.	3	
NTP (Natio	NTP (National Toxicology Program)			
63231-67-4	1 Silica gel	K		
6155-57-3	3 Saccharin Sodium dihydrate	YE	S	



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Toxicity Aquatic toxicity: 772-43-7 Barium sulphate EC50/48h 32 mg/L (Daphnia Magna) L1138-662 Xanthan gum LC50/96h 490 mg/L (Cainbow Trout) LC50/96h 490 mg/L (Daphnia Magna) LC50/96h 900 mg/L (Daphnia Magna) LC50/96h 9000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum)) Status LC50 A60 mg/L (Leuciscus Idus) (ECOTOX Database) EC0 LC50 A60 mg/L (Leuciscus Idus) (ECOTOX Database) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) EC50/48h 34400 mg/L (Conchorhyncus Mykiss) (External SDS) EC50/48h 34400 mg/L (Caphnia Magna) (Literature) T-92-9 Citric Acid, Anhydrous Colspan="2">Colspan="2">Colspan="2">Citric Acid, Anhydrous Colspan="2">Colspan="2">Colspan="2">Colspan="2">Citric Acid, Anhydrous Citric Acid, Anhydrous Citric Acid, Anhydrous Citric Acid, Anhydrous Citric Acid, Anhydrous	12 Ecological information				
Aquatic toxicity: 7727-43-7 Barium sulphate EC50/48h 32 mg/L (Daphnia Magna) 11138-66-2 Xanthan gum LC50/96h 490 mg/L (Rainbow Trout) LC50/96h > 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum)) 532-32-1 Sodium Benzoate LC50 LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) IC50 1000 mg/L (Bacteria) (Exernal SDS) EC50/148h > 100 mg/L (Daphnia Mgna) (Levanal SDS) S7-55-6 propane-1,2-diol LC50/96h LC50/96h 19000 mg/L (Onchorhyncus Mykiss) (External SDS) IC50/96h 19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS) IC50/96h 19000 mg/L (Activated Sludge)(Literature) EC50/148h > 1000 mg/L (Activated Sludge)(Literature) EC50/96h 1400 mg/L (Cucviscus Idus) (IUCLID) LC50 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Fish) LC50/96h 440 - 760 mg/L (Fish) LC50/97/L 640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration) EC5/72h 485 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration) EC5/72h 80 mg/L (Microcy	Toxicity				
7727-43-7 Barium sulphate EC50/48h 32 mg/L (Daphnia Magna) 11138-66-2 Xanthan gum LC50/96h 490 mg/L (Rainbow Trout) LC50/96h > 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum)) 532-32-1 Sodium Benzoate EC0 LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) 1000 mg/L (Bacteria) (Exernal SDS) EC0 LC50/96h > 10 mg/L (Algae) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) EC50/48h > 100 mg/L (Donchorhyncus Mykiss) (External SDS) 57-55-6 propane-1,2-diol LC50/96h LC50/96h 51600 mg/L (Conchorhyncus Mykiss) (External SDS) EC50/14b 34400 mg/L (Donchorhyncus Mykiss) (External SDS) EC50/36h 4400 mg/L (Daphnia Magna) (Literature) T7-92-9 Citric Acid, Anhydrous EC50/96h LC50/96h 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50/96h 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50/96h 440 - 760 mg/L (Leuciscus Idus) (Literature) IC5/72h 485 mg/L (Echinodontium Sulcatum) (Literature) IC5/72h 400 mg/L (Pseudomonas Putida) (Literature) IC5/72h 80 mg/L (Microcystis Aeruginosa)	•				
11138-66-2 Xanthan gum LC50/96h 490 mg/L (Rainbow Trout) LC50/48h 980 mg/L (Daphnia Magna) LC50/96h > 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum)) 532-32-1 Sodium Benzoate LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) EC0 1000 mg/L (Bacteria) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) 57-55-6 propane-1,2-diol 1000 mg/L (Chclorhyncus Mykiss) (External SDS) IC50/96h 19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS) IC50/96h 19000 mg/L (Cativated Sludge) (Literature) EC50/48h > 4000 mg/L (Caphnia Magna) (Literature) T7-92-9 Citric Acid, Anhydrous 100 mg/L (Leuciscus Idus) (IUCLID) LC50/96h 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50/71 640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration) EC5/72h 80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration) EC50/72h ca. 120 mg/L (Daphnia Magna) (IUCLID) 9005-65-6 Polysorbate 80 120 mg/L (Onchorhyncus Mykiss) (External SDS) EC50/72h ca. 120 mg/L (Daphnia Magna) (IUCLID)	-				
LC50/96h 490 mg/L (Rainbow Trout) LC50/48h 980 mg/L (Daphnia Magna) LC50/96h > 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb /bbl of Xanthan Gum)) 532-32-1 Sodium Benzoate LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) EC0 1000 mg/L (Bacteria) (Exernal SDS) EC50/72h > 10 mg/L (Algae) (Exernal SDS) EC50/48h > 100 mg/L (Conchorhyncus Mykiss) (External SDS) 57-55-6 propane-1,2-diol LC50/96h LC50/96h 15000 mg/L (Conchorhyncus Mykiss) (External SDS) EC50/34h > 1000 mg/L (Pseudokirchneriella Subcapitata) (External SDS) EC50/96h 19000 mg/L (Chaphnia Magna) (Literature) C50/96h 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Fish) IC5/7/d 640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration) EC5/7/2h 80 mg/L (Bacteria Magna) (IUCLID) LC50/72h 485 mg/L (Echinodontium Sulcatum) (Literature)(Max. Permissible Toxic Concentration) EC5/72h 80 mg/L (Reseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration) EC50/72h 120 mg/L (Daphnia Magna) (IUCLID)	EC50/48h	32 mg/L (Daphnia Magna)			
LC50/48h980 mg/L (Daphnia Magna)LC50/96h> 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum))532-32-1 Sodium BenzoateLC50460 mg/L (Leuciscus Idus) (ECOTOX Database)EC01000 mg/L (Bacteria) (Exernal SDS)EC51/24h> 100 mg/L (Algae) (Exernal SDS)EC50/48h> 100 mg/L (Daphnia) (Exernal SDS)57-55-6 propare-1,2-diolLC50/96h51600 mg/L (Onchorhyncus Mykiss) (External SDS)EC50/34h> 1000 mg/L (Qaphnia) (Literature)EC50/34h> 1000 mg/L (Activated Sludge) (Literature)EC50/34h> 4400 mg/L (Leuciscus Idus) (IUCLID)LC50440 - 760 mg/L (Leuciscus Idus) (IUCLID)LC50440 - 760 mg/L (Fish)IC5/74h880 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)EC51/74h880 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC50/72h> 1000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72h> 1000 mg/L (Daphnia Magna) (Literature)(Max. Permissible Toxic Concentration)EC51/72ha85 mg/L (Chinchorhyncus Mykiss) (External SDS)SC50/72h> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72h> 10000 mg/L (Daphnia Magna) (IUCLID)905-65-6Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (Ext	11138-66-2	2 Xanthan gum			
LC50/96h > 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum)) 532-32-1 Sodium Benzoate LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) EC0 1000 mg/L (Bacteria) (Exernal SDS) IC50/72h > 10 mg/L (Algae) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) 57-55-6 propae-1,2-diol LC50/96h 51600 mg/L (Onchorhyncus Mykiss) (External SDS) IC50/96h 19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS) EC50/38h > 1000 mg/L (Activated Sludge) (Literature) EC50/48h 34400 mg/L (Daphnia Magna) (Literature) EC50/48h 34400 mg/L (Daphnia Magna) (Literature) T7-92-9 Citric Acid, Anhydrous EC50/48h LC50/96h 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Fish) IC5/7d 640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration) EC5/72h 485 mg/L (Echinodontium Sulcatum) (Literature) IC5/72h > 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration) EC5/72h > 10000 mg/L (Dephnia Magna) (IUCLID) 9005-65-6 Poly	LC50/96h	490 mg/L (Rainbow Trout)			
532-32-1 Sodium Benzoate LC50 460 mg/L (Leuciscus Idus) (ECOTOX Database) EC0 1000 mg/L (Bacteria) (Exernal SDS) IC50/72h > 10 mg/L (Algae) (Exernal SDS) EC50/48h > 100 mg/L (Daphnia) (Exernal SDS) 57-55-6 propane-1,2-diol 1000 mg/L (Onchorhyncus Mykiss) (External SDS) IC50/96h 51600 mg/L (Onchorhyncus Mykiss) (External SDS) IC50/96h 51600 mg/L (Onchorhyncus Mykiss) (External SDS) EC50/48h > 1000 mg/L (Activated Sludge) (Literature) EC50/48h 34400 mg/L (Daphnia Magna) (Literature) T7-92-9 Citric Acid, Anhydrous 1000 mg/L (Cauciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Leuciscus Idus) (IUCLID) LC50 440 - 760 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration) EC51/2h 486 mg/L (Echinodontium Sulcatum) (Literature) IC5/8d 80 mg/L (Microcystis Aeruginosa) (IUCLID) SC50/72h > 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration) EC50/72h > 10000 mg/L (Daphnia Magna) (IUCLID) SC50/72h > 10000 mg/L (Daphnia Magna) (IUCLID) 9005-65-6 Polysorbate 80 10000 mg/L (Donchryncus Mykiss) (External SDS) EC0 > 100	LC50/48h	980 mg/L (Daphnia Magna)			
LC50460 mg/L (Leuciscus Idus) (ECOTOX Database)EC01000 mg/L (Bacteria) (Exernal SDS)IC50/72h> 10 mg/L (Algae) (Exernal SDS)EC50/48h> 100 mg/L (Daphnia) (Exernal SDS)57-55-6 propane-1,2-diolLC50/96h51600 mg/L (Onchorhyncus Mykiss) (External SDS)IC50/96h19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS)EC50/48h> 1000 mg/L (Activated Sludge) (Literature)EC50/48h34400 mg/L (Daphnia Magna) (Literature)EC50/48h34400 mg/L (Cauciscus Idus) (IUCLID)LC50440 - 760 mg/L (Leuciscus Idus) (IUCLID)LC50440 - 766 mg/L (Exernal SUCapitata) (Literature)(Max. Permissible Toxic Concentration)EC5/72h485 mg/L (Echinodontium Sulcatum) (Literature)(Max. Permissible Toxic Concentration)EC5/72h80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC5/72h> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC5/72hatom g/L (Daphnia Magna) (IUCLID)ca. 120 mg/L (Daphnia Magna) (LUCLID)9005-65-6 Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)EC30/72h> 10000 mg/L (Pseudomonas Putida) (External SDS)EC50/72h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 32000 mg/L (Chorella Vulgaris) (IUCLID - Anhydrous	LC50/96h	> 50000 ppm (Mysid Shrimp) (Suspended Particulate (2 lb./bbl of Xanthan Gum))			
EC01000 mg/L (Bacteria) (Exernal SDS)IC50/72h> 10 mg/L (Algae) (Exernal SDS)EC50/48h> 100 mg/L (Daphnia) (Exernal SDS)57-55-6 propane-1,2-diolLC50/96h51600 mg/L (Onchorhyncus Mykiss) (External SDS)IC50/96h19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS)EC50/48h> 1000 mg/L (Activated Sludge) (Literature)EC50/48h34400 mg/L (Daphnia Magna) (Literature)EC50/48h34400 mg/L (Daphnia Magna) (Literature)T7-92-9 Citric Acid, AnhydrousLC50/96h440 - 760 mg/L (Leuciscus Idus) (IUCLID)LC50440-706 mg/L (Fish)IC5/7d640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)EC5/72h485 mg/L (Echinodontium Sulcatum) (Literature)IC5/8d80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Daphnia Magna) (IUCLID)9005-65-6 Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)EC1> 10000 mg/L (Pseudomonas Putida) (External SDS)EC2> 10000 mg/L (Pseudomonas Putida) (External SDS)6132-04-3 Trisodium citrate dihydrateLC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Chorella Vulgaris) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 32000 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)	532-32-1 S	Sodium Benzoate			
IC50/72h> 10 mg/L (Algae) (Exernal SDS)EC50/48h> 100 mg/L (Daphnia) (Exernal SDS)57-55-6 propane-1,2-diolLC50/96h51600 mg/L (Onchorhyncus Mykiss) (External SDS)IC50/96h19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS)EC50/3h> 1000 mg/L (Activated Sludge) (Literature)EC50/48h34400 mg/L (Daphnia Magna) (Literature)T7-92-9 Citric Acid, AnhydrousLC50/96h440 - 760 mg/L (Leuciscus Idus) (IUCLID)LC50440-706 mg/L (Fish)IC5/7d640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)EC5/72h485 mg/L (Echinodontium Sulcatum) (Literature)(Max. Permissible Toxic Concentration)EC5/72h80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC5/72hca. 120 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Donchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Donchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/96h¥1800 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 32000 mg/L (Pseudomonas Fluorescens) (IUCLID -	LC50	460 mg/L (Leuciscus Idus) (ECOTOX Database)			
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77-92-9 Citric Acid, AnhydrousLC50/96h440 - 760 mg/L (Leuciscus Idus) (IUCLID)LC50440-706 mg/L (Fish)IC5/7d640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)EC5/72h485 mg/L (Echinodontium Sulcatum) (Literature)IC5/8d80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC5/16h> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Daphnia Magna) (IUCLID)9005-65-6 Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)6132-04-3 Trisodium citrate dihydrateLC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Chlorella Vulgaris) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 32000 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)	EC50/3h	> 1000 mg/L (Activated Sludge)(Literature)			
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IC5/8d80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)EC5/16h> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)EC50/72hca. 120 mg/L (Daphnia Magna) (IUCLID)9005-65-6 Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS)EC0> 10000 mg/L (Pseudomonas Putida) (External SDS)6132-04-3 Trisodium citrate dihydrateLC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Chlorella Vulgaris) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 32000 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)	IC5/7d	640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)			
EC5/16h> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration) ca. 120 mg/L (Daphnia Magna) (IUCLID)9005-65-6Polysorbate 80LC50/96h471 mg/L (Onchorhyncus Mykiss) (External SDS) > 10000 mg/L (Pseudomonas Putida) (External SDS)6132-04-3Trisodium citrate dihydrateLC50/96h> 18000 - 32000 mg/L (Poecilia Reticulata) (IUCLID - Anhydrous substance)IC50/96h> 18000 - 32000 mg/L (Chlorella Vulgaris) (IUCLID - Anhydrous substance)EC50/8h> 1800 - 3200 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)	EC5/72h	485 mg/L (Echinodontium Sulcatum) (Literature)			
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IC50/96h > 18000 - 32000 mg/L (Chlorella Vulgaris) (IUCLID - Anhydrous substance) EC50/8h > 1800 - 3200 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)					
EC50/8h > 1800 - 3200 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)					
	IC50/96h	> 18000 - 32000 mg/L (Chlorella Vulgaris) (IUCLID - Anhydrous substance)			
EC50/48h 5600 - 10000 mg/L (Daphnia Magna) (IUCLID - Anhydrous substance)	EC50/8h	> 1800 - 3200 mg/L (Pseudomonas Fluorescens) (IUCLID - Anhydrous substance)			
	EC50/48h	5600 - 10000 mg/L (Daphnia Magna) (IUCLID - Anhydrous substance)			

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information

Use according to the good working practice. Avoid transfer into the environment.

General notes: Generally not hazardous for water

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

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Printing date 01/20/2021

Version 5

Reviewed on 01/20/2021

Trade name: Liquid Polibar Plus

13 Disposal considerations

Waste treatment methods

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Recommendation: Reutilise if possible or contact a waste processors for recycling or safe disposal. **Waste disposal key:**

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

	-	
	UN-Number DOT	Void
	TDG, ADN, IMDG, IATA	Void
	UN proper shipping name DOT, TDG, ADN, IMDG, IATA	Void
	Transport hazard class(es)	
	DOT, TDG, ADN, IMDG, IATA Class	Void
	Packing group DOT, TDG, IMDG, IATA	Void
	Environmental hazards: Marine pollutant:	No
	Special precautions for user	Not applicable.
	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
5	Pagulatory information	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances): None of the ingredients is listed.



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Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
Canadian Ingredient Disclosure list (limit 0.1%	6)
None of the ingredients is listed.	
Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients is listed.	
GHS label elements Not applicable.	
Hazard pictograms Not applicable.	
Signal word Not applicable.	
Hazard statements Not applicable.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision: 01/20/2021

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent