

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/31/2019

Version 4

Reviewed on 10/31/2019

## 1 Identification

### Product identifier

**Trade name:** EZ –Paque (Current Formula)

**Article number:** 747(INT), 750, 750(CAN), 750(INT), 7772

### Application of the substance / the mixture:

Radiopaque contrast media for diagnostic imaging of the gastrointestinal tract

White bulky powder with a characteristic odor and no grittiness:

- Cat. No. 750 (176g bottle): When diluted as per marking on bottle: 70% - 114% w/v
- Cat. No. 7772 (1200g Jug): When diluted as per table on unit label: 54% - 102% w/v
- Cat. No. 747 : (10Kg pail): When diluted as per table on unit label: 16% - 115% w/v

Route of Administration: Oral and Rectal

### 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:

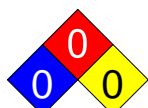
#### WHMIS-symbols:

Not Hazardous.

Not controlled under WHIMS (Canada).

### Classification system:

#### NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

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HEALTH	*1	Health = *1
FIRE	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	96.31% w/w
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**Information on components:**

7727-43-7	Barium sulphate	96.31% w/w
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### 4 First-aid measures

**Description of first aid measures****General information:** No special measures required.**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. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

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

No further relevant information available.

**Danger****Inhalation:** If dusts are formed, inhalation may cause adverse lung effects.**Eyes:** Inert particles may cause mechanical irritation of the eyes, including scratches. Symptoms may include stinging and tearing.**Ingestion:** Ingestion of large amounts may cause stomach irritation.**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.

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture**

Not flammable under normal conditions of use. Fine dust dispersed in air may ignite

**Advice for firefighters****Protective equipment:**

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

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

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### 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 personnel to an upwind direction. Remove unneeded material.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Remove persons from danger area.  
Avoid formation of dust.

### 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.  
Eliminate all ignition sources.  
Pick up mechanically.  
Clean the affected area carefully.  
Suitable cleaner is: water.  
Send for recovery or disposal in suitable receptacles.  
Ensure adequate ventilation.

### 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

Do not inhale dust / smoke / mist.  
Provide suction extractors if dust is formed.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with the eyes and skin.

### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.  
Avoid accumulation of static charges, by means of adequate grounded electrical connection.

### 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

CAD AB OEL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
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CAD BC OEL (Canada)	Long-term value: 3* ; 10** mg/m <sup>3</sup> *: Respirable Fraction; **: Total Dust
CAD MB OEL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
CAD ON OEL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
OEL (QUE) (Canada)	Long-term value: 5* ; 10** mg/m <sup>3</sup> *: Respirable Fraction; **: Total Dust
ACGIH (USA)	Long-term value: 10 mg/m <sup>3</sup>
ACGIH 2014 TLV (USA)	Long-term value: 5 mg/m <sup>3</sup> Total Dust, no asbestos and <1% crystalline silica
CAL/OSHA PEL (USA)	Long-term value: 5* ; 10** mg/m <sup>3</sup> *:Respirable Fraction; **:Total Dust
NIOSH/GUIDE - REL (USA)	Long-term value: 5* ; 10** mg/m <sup>3</sup> *: Respirable Fraction; **: Total Dust
OSHA PEL <sub>1</sub> (USA)	Long-term value: 5* ; 15** mg/m <sup>3</sup> *: Respirable Fraction; **:Total Dust

**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.

Filter P2

##### 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

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## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

**Appearance:**

**Form:** Powder  
**Color:** White

**Odor:** Characteristic  
**Odor threshold:** Not determined.

**pH-value:** Not applicable.

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** Not determined.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not determined.

**Ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**Oxidizing properties** Not determined.

**Vapor pressure:** Not determined.

**Density at 20 °C:** 4.2 - 4.5 g/cm<sup>3</sup>

**Bulk density at 20 °C:** 700 kg/m<sup>3</sup>

**Relative density** Not determined.

**Vapor density** Not applicable.

**Evaporation rate** Not applicable.

**Solubility in / Miscibility with**

**Water:** Insoluble.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not applicable.  
**Kinematic:** Not applicable.  
**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** Avoid all sources of ignition: heat, sparks, open flames.

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**Incompatible materials:** Reactive metals.

**Hazardous decomposition products:**

Sulfur oxides (SO<sub>x</sub>)

Barium Oxide (BaO)

Other unidentified organic compounds

## 11 Toxicological information

### Information on toxicological effects

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**7727-43-7 Barium sulphate**

Oral	LD50	> 20000 mg/kg (Rat) (External SDS)
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**50-70-4 D-glucitol**

Oral	LD50	15900 mg/kg (Rat)
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**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)

**9000-07-1 Carrageenan**

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)

**77-92-9 Citric Acid, Anhydrous**

Oral	LD50	5040 mg/kg (Mouse)
		3000 mg/kg (Rat) (RTEC)

**9000-65-1 Gum tragacanth**

Oral	LD50	10200 mg/kg (Rat) (RTEC)
	LD50	7200 mg/Kg bw (Rabbit)

**63148-62-9 Polydimethylsiloxane**

Oral	LD50	> 15400 mg/kg (Rat)
Dermal	LD50	> 2000 mg/kg (Rabbit)

**11138-66-2 Xanthan gum**

Oral	LD50	> 5000 mg/kg (Rat)
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**6155-57-3 Saccharin Sodium dihydrate**

Oral	LD50	> 14200 mg/kg (Rat) (anydrous substance - RTEC)
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**57-55-6 propane-1,2-diol**

Oral	LD50	19400 - 36000 mg/kg (Rat) (Literature)
Dermal	LD50	20800 mg/kg (Rabbit) (Literature)

**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.

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

### Carcinogenic categories

IARC (International Agency for Research on Cancer)		
9000-07-1	Carrageenan	3
6155-57-3	Saccharin Sodium dihydrate	Yes: Carc. 3
NTP (National Toxicology Program)		
6155-57-3	Saccharin Sodium dihydrate	YES

## 12 Ecological information

### Toxicity

Aquatic toxicity:	
<b>7727-43-7 Barium sulphate</b>	
EC50/48h	32 mg/L (Daphnia Magna)
<b>6132-04-3 Trisodium citrate dihydrate</b>	
LC50/96h	> 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)
EC50/48h	5600 - 10000 mg/L (Daphnia Magna) (IUCLID - Anhydrous substance)
<b>77-92-9 Citric Acid, Anhydrous</b>	
LC50/96h	440 - 760 mg/L (Leuciscus Idus) (IUCLID)
LC50	440-706 mg/L (Fish)
IC5/7d	640 mg/L (Scenedesmus Quadricauda) (Literature)(Max. Permissible Toxic Concentration)
EC5/72h	485 mg/L (Echinodontium Sulcatum) (Literature)
IC5/8d	80 mg/L (Microcystis Aeruginosa) (Literature)(Max. Permissible Toxic Concentration)
EC5/16h	> 10000 mg/L (Pseudomonas Putida) (Literature)(Max. Permissible Toxic Concentration)
EC50/72h	ca. 120 mg/L (Daphnia Magna) (IUCLID)
<b>63148-62-9 Polydimethylsiloxane</b>	
EC50/48h	> 200 mg/L (Daphnia)
<b>11138-66-2 Xanthan gum</b>	
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))
<b>57-55-6 propane-1,2-diol</b>	
LC50/96h	51600 mg/L (Onchorhyncus Mykiss) (External SDS)
IC50/96h	19000 mg/L (Pseudokirchneriella Subcapitata) (External SDS)
EC50/3h	> 1000 mg/L (Activated Sludge) (Literature)
EC50/48h	34400 mg/L (Daphnia Magna) (Literature)

**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.

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**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

### 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.



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## 15 Regulatory information

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

Sara

<b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.
<b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
<b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
9000-65-1   Gum tragacanth
<b>Canadian Ingredient Disclosure list (limit 1%)</b>
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** 05/12/2017 / 2

**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