1 Identification

Product identifier

Trade name: EZ-Paque

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

Application of the substance / the mixture: E-Z-Paque is indicated for use as a positive contrast medium for radiographic visualisation of the gastro-intestinal tract. Route of administration: Oral.

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
Email: HSE@bracco.com (responsible for the SDS)

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

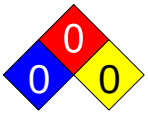
Hazard statements: Not applicable

Additional Information

WHMIS-symbols: Not Hazardous

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0
Fire = 0
Reactivity = 0

Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixtures consisting of the following components:

Hazardous Components: Not applicable

Non-Hazardous Components		
CAS No.	**Name**	**Qty.**
7727-43-7	Barium sulphate	96.31% w/w

Information on components		
CAS No.	**Name**	**Qty.**
7727-43-7	Barium sulphate	96.31% 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

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. CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents:
None in particular.

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.

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 firefighting 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

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.

Special spill response procedures:
FOR USA: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None reported.

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 a 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:

Components with limit values that require monitoring at the workplace:	
7727-43-7 Barium sulphate	
CAD AB OEL (Canada)	Long-term value: 10 mg/m³
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 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 – REL (USA)	Long-term value: 5* ; 10** mg/m³ *:Respirable Fraction; **:Total Dust
OSHA PEL (USA)	Long-term value: 5* ; 15** mg/m³ *: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:

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 cannot 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 refiling

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information:

Appearance

Form:	Powder
Color:	White
Odor:	Characteristics
Odor threshold:	Not determined
pH – Value:	Not applicable
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
Danger of explosion:	The product does not present an expl. Hazard
Flammability Limits:	
Lower:	Not determined
Upper:	Not determined
Explosion Limits:	
Lower:	Not determined
Upper:	Not determined
Oxidizing properties:	Not determined
Vapor pressure:	Not determined
Density:	4.2 - 4.5 g/cm³
Relativity density at 20 °C (68 °F):	Not determined
Vapor Density at 20 °C (68 °F):	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with	
Water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Water:	Not determined

VOC Content: Not determined

Solid content: 80.0 %

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 reaction known.

Conditions to avoid

Avoid all sources of ignition: Heat, sparks, Open flames

Incompatible materials

Reactive metals

Hazardous decomposition products

Sulfur oxides (SOx)

Carbon monoxide and carbon dioxide

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)
50-70-4 D-glucitol		
Oral	LD50	15900 mg/kg (Rat)
6132-04-3 Trisodium citrate dihydrate		
Oral	LD50 LD50 iv LD50 ip	> 8000 mg/kg (Rat) (IUCLID - Anhydrous substance) 170 mg/kg (Mouse) 449 mg/kg (Rabbit) 1364 mg/Kg (Mouse) 1548 mg/Kg (Rat)
9000-07-1 Carrageenan		
Oral Dermal Inhalative	LD50 LD50 LC50/4h	> 5000 mg/kg (Rat) > 2000 mg/kg (Rabbit) > 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)
6155-57-3 Saccharin Sodium dihydrate		
Oral	LD50	> 14200 mg/kg (Rat) (anydrous substance - RTEC)
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 irritating effect

on the eye: No irritating effect

Sensitization: No sensitizing effects known.

Other information (about experimental toxicology):

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.

Carcinogenic categories

IARC (International Agency for Research on Cancer)		
9000-07-1	Carrageenan	3
6155-57-3	Saccharin sodium dihydrate	Carc 2B
NTP (National Toxicology Program)		
6155-57-3	Saccharin sodium dihydrate	Yes

12 Ecological information

Toxicity

Aquatic toxicity:	
7727-43-7 Barium sulphate	
EC50/48h	32 mg/L (Daphnia Magna)
6132-04-3 Trisodium citrate dihydrate	
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
EC50/48h	substance) 5600 - 10000 mg/L (Daphnia Magna) (IUCLID - Anhydrous substance)

77-92-9 Citric Acid, Anhydrous	
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
EC5/72h	Concentration) 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
EC50/72h	Concentration) ca. 120 mg/L (Daphnia Magna) (IUCLID)
63148-62-9 Polydimethylsiloxane	
EC50/48h	> 200 mg/L (Daphnia)
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))
57-55-6 propane-1,2-diol	
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)
EC50/48h	(Literature) 34400 mg/L (Daphnia
	Magna) (Literature)

Persistence and degradability

No further relevant information available

Bio accumulative potential

No further relevant information available

Mobility in soil

No further relevant information available

Additional ecological information

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

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 packaging:

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, ADR, ADN, IMDG, IATA — Void

UN proper shipping name:
DOT, ADR, ADN, IMDG, IATA — Void

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA — Void
Class:

Packing Group
DOT, ADR, IMDG, IATA — Void

Environmental Hazards:
Marine pollutant: — Void

Special precautions for user — Void

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

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.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
9000-65-1	Gum tragacanth
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. Training Hints: All persons handling this product should be informed on the existence of the hazard, on any possible risk they might be subjected to and about all required protective measures to prevent such a damage or to reduce the exposition.

Contact:
E-Z-EM Canada Inc.1065
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Montréal, QC, Canada
H1J 2Z4
Date of preparation / last revision: 01/05/2023, revision 6
Changes: General revision of the entire document

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
ACGIH: American Conference of Governmental Industrial Hygienists
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 3: Acute toxicity – Category 3