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SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
260001	BD GasPak™ EZ Sachet Anaerobe W/Indicator	No data available
260678	BD GasPak™ EZ Anaerobe Container System	No data available
260679	BD GasPak™ EZ CO2 Container System	No data available
260680	BD GasPak™ EZ Campy Container System	No data available
260683	BD GasPak™ EZ Anaerobe Pouch System	No data available
260684	BD GasPak™ EZ CO2 Gas Generating Pouch System	No data available
260685	BD GasPak™ EZ Campy Pouch System	No data available

Other means of identification
SDS number: 088100178617

Recommended use of the chemical and restrictions on use

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.
Recommended restrictions: None known.

Supplier's details

Supplier

Company Name:	Becton Dickinson Ltd.
Address:	14B George Bourke Drive Mt Wellington, Auckland, 1060 New Zealand
Telephone:	0800 572 468
Fax:	
Contact Person:	Customer Service
E-mail:	bd_anz@bd.com

Emergency telephone number: ChemTrec New Zealand: +(64)-98010034

2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001
Classified according to NZS 5433:1999, UN, IMDG, and IATA.

Classification of the hazardous chemical:

Health Hazards

Class 6.1: Toxicity – Acutely toxic (Oral)	Category E
Class 6.3: Toxicity – Skin irritant	Category A

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Class 6.4: Toxicity – Eye irritant	Category A
Class 6.9: Toxicity – Target organ	Category B

Label elements, including precautionary statements

Hazard symbol(s):

Signal Word: Warning

Hazard Statement(s):
May be harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s):

Prevention: Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Response: 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 advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

Supplemental label information None.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Ethene, homopolymer	No data available.	9002-88-4	30 - 60%
Carbon	No data available.	7440-44-0	15 - 40%
Carbonic acid sodium salt (1:2)	No data available.	497-19-8	15 - 40%
Sulfuric acid, iron(2+) salt (1:1)	No data available.	7720-78-7	1 - 5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Causes serious eye irritation.

Description of necessary first-aid measures

Inhalation: Get medical attention if any discomfort continues.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Eye contact: Important! Immediately rinse with water for at least 15 minutes. Get medical attention immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.

Personal Protection for First-aid Responders: No data available.

Symptoms caused by exposure

Symptoms: No data available.

Hazards: Causes serious eye irritation.

Medical attention and special treatment

Treatment Get immediate medical advice/attention.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

Means of fire extinguishing

Suitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

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Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising from the chemical:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No unusual fire or explosion hazards noted.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Hazchem Code:	No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.
For non-emergency personnel:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
For emergency responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Environmental Precautions:	Avoid release to the environment.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling:	Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store in tightly closed original container in a dry, cool and well-ventilated place.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethene, homopolymer	TWA	3 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (02 2013)
	TWA	10 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (02 2013)
Carbon	TWA	3 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (06 2016)
	TWA	3 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (02 2013)
	TWA	10 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (02 2013)
Sulfuric acid, iron(2+) salt (1:1) - as Fe	TWA	1 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (09 2010)

Biological Limit Values

None of the components have assigned exposure limits.

Appropriate Engineering Controls: Adequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Avoid contact with eyes. Wash hands after contact. Observe good industrial hygiene practices.

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9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Solid
Color:	According to product specification.
Odor:	Characteristic
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Slightly Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Not determined.

10. Stability and reactivity

Reactivity:	Product is not reactive under normal conditions and recommended use.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.
Other information:	Stable under normal temperature conditions and recommended use.

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11. Toxicological information

Information on likely routes of exposure

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Irritating to eyes.

Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity

Oral
Product: ATEmix (): 4,163.75 mg/kg

Dermal
Product: ATEmix ( ): 8,363.67 mg/kg

Inhalation
Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity
Product: No data available.
Specified substance(s):

Carbon	NOAEL (Rat(Male), Oral, 28 - 53 d): >= 859 mg/kg Oral Experimental result, Key study NOAEL (Rat(female), Oral, 28 - 53 d): >= 1,521 mg/kg Oral Experimental result, Key study NOAEL (Rat(female), Oral, 28 - 53 d): >= 994 mg/kg Oral Experimental result, Key study NOAEL (Rat(female), Oral, 28 - 53 d): >= 1,051 mg/kg Oral Experimental result, Key study
Sulfuric acid, iron(2+) salt (1:1)	NOAEL (Rat(Male), Oral, 14 d): 125 mg/kg Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 42 - 49 d): 100 mg/kg Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m) Oral Read-across

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based on grouping of substances (category approach), Key study
NOAEL (Rat(Female, Male), Oral, 42 - 49 d): >= 1,000 mg/kg Oral Experimental result, Supporting study

Skin irritation and corrosion

Product: No data available.

Specified substance(s):

Carbon	in vivo (Rabbit): Not irritant Experimental result, Key study
Carbonic acid sodium salt (1:2)	in vivo (Rabbit): Not irritant Experimental result, Supporting study in vivo (Rabbit): Not irritant Experimental result, Key study
Sulfuric acid, iron(2+) salt (1:1)	in vivo (Rabbit): Not irritant Experimental result, Supporting study in vivo (Rabbit): Irritating Experimental result, Key study in vivo (Rabbit): Not irritant Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

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12. Ecological information

Ecotoxicity

Acute hazards to the aquatic environment

Fish
Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates
Product: No negative effects on the aquatic environment are known.

Chronic hazards to the aquatic environment

Fish
Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates
Product: No negative effects on the aquatic environment are known.

Toxicity to Aquatic Plants
Product: No negative effects on the aquatic environment are known.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):

Sulfuric acid, iron(2+) salt (1:1)	Cyprinus carpio, Bioconcentration Factor (BCF): <= 20 Aquatic sediment Experimental result, Key study Salmo trutta, Bioconcentration Factor (BCF): 13.5 - 91.7 Aquatic sediment Experimental result, Supporting study Salmo trutta, Bioconcentration Factor (BCF): 38.2 - 663 Aquatic sediment Experimental result, Supporting study Salmo trutta, Bioconcentration Factor (BCF): 0.8 - 3 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 2 - 2.9 Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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Ethene, homopolymer	No data available.
Carbon	No data available.
Carbonic acid sodium salt (1:2)	No data available.
Sulfuric acid, iron(2+) salt (1:1)	No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

International regulations

IATANot regulated.

IMDGNot regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

15. Regulatory information

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001
Classified according to NZS 5433:1999, UN, IMDG, and IATA.

Ozone Depleting Substances
Not Regulated

New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)
Not Regulated

International regulations

Montreal protocol
Not applicable

Stockholm convention

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Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16.Other Information

Issue Date: 16.08.2021

Revision Information:

Further Information: No data available.

Key abbreviations or acronyms used

References: No data available.

Disclaimer:

Disclaimer:
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