

Becton, Dickinson and
Company
BD, Franklin Lakes, NJ
07417 USA
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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 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

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

SDS_GB

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Manufacturer

BD, Integrated Diagnostic Solutions
11, rue Aristide Bergès
Le Pont de Claix 38800
France

Telephone: 33 476 68 36 36

Contact Person: BD Diagnostic Systems Europe - Regulatory Compliance Department

E-mail: msds_europe@bd.com

1.4 Emergency telephone number: CHEMTREC 1 800 424 9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Serious eye irritation Category 2A H319: Causes serious eye irritation.

2.2 Label Elements



Signal Word: Warning

Hazard Statement(s): H319: Causes serious eye irritation.

Precautionary Statements

Prevention: P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Carbon	10 - <20%	7440-44-0	231-153-3	No data available.	No data available.	#
sodium carbonate	10 - <20%	497-19-8	207-838-8	No data available.	No data available.	
iron (II) sulfate	1 - <5%	7720-78-7	231-753-5	No data available.	No data available.	#

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

This substance has workplace exposure limit(s).

Classification

Chemical name	CLP Classification	Notes
Carbon	Flam. Sol.: 1: H228Self-heat.: 1: H251Skin Irrit.: 2: H315Eye Irrit.: 2: H319STOT SE: 3: H335	
sodium carbonate	Eye Irrit.: 2: H319	No data available.
iron (II) sulfate	Skin Irrit.: 2: H315Acute Tox.: 4: H302Eye Irrit.: 2: H319	No data available.

Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

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SECTION 4: First aid measures

General: Causes serious eye irritation.

4.1 Description of first aid measures

Inhalation: Get medical attention if any discomfort continues.

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

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

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

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Causes serious eye irritation.

Treatment: Get immediate medical advice/attention.

SECTION 5: Firefighting 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.

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

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

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- 5.2 Special hazards arising from the substance or mixture:** Fire or excessive heat may produce hazardous decomposition products.
- 5.3 Advice 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.

SECTION 6: Accidental release measures

- 6.1 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.
- 6.2 Environmental Precautions:** Avoid release to the environment.
- 6.3 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.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and storage:

- 7.1 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.

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7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s):

Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Ethene, homopolymer - Inhalable dust.	TWA	10 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Ethene, homopolymer - Respirable dust.	TWA	4 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Carbon - Inhalable dust.	TWA	10 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
Carbon - Respirable dust.	TWA	4 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
iron (II) sulfate - as Fe	STEL	2 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
	TWA	1 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls:

Adequate ventilation should be provided whenever the material is heated or mists are generated.

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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.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable
Evaporation Rate:	No data available.

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Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	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.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	Not determined.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

Molecular weight:	No data available.
VOC Content:	No data available.
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
Dust Explosion Limit, Lower:	No data available.
Dust Explosion Description Number Kst:	No data available.
Minimum ignition energy:	No data available.
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	No data available.

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- 10.3 Possibility of hazardous reactions:** None under normal conditions.
- 10.4 Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.
- 10.5 Incompatible Materials:** Strong oxidizing agents.
- 10.6 Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

SECTION 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.
- Ingestion:** Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
- Skin Contact:** Negligible irritation to skin at ambient temperatures.
- Eye contact:** Irritating to eyes.

11.1 Information on toxicological effects

Acute toxicity

- Oral Product:** ATEmix: 5,669.17 mg/kg

Specified substance(s)

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Carbon LD 50 (Rat): 24,000 mg/kg LD 50 (Rat): $\geq 2,000$ mg/kg
Experimental result, Key study
sodium carbonate LD 50 (Rat): 2,800 mg/kg Experimental result, Key study
iron (II) sulfate LD 50 (Mouse): 670 - 680 mg/kg Experimental result, Supporting study
LD 50 (Mouse): 205 mg/kg Experimental result, Supporting study
LD 50 (Rat): 3.2 g/kg Experimental result, Supporting study
LD 50 (Mouse, Rat): 2,625 mg/kg Experimental result, Supporting study
LD 50 (Mouse): 4,500 mg/kg Experimental result, Supporting study
LD 50 (Mouse, Rat): 1,025 mg/kg Experimental result, Supporting study
LD 50 (Rat): 319 mg/kg Experimental result, Supporting study
LD 50 (Rat): 237 mg/kg Experimental result, Supporting study
LD 50 (Mouse): 680 mg/kg Experimental result, Supporting study
LD 50 (Mouse): 211 mg/kg Experimental result, Supporting study
LD 50 (Rat): $> 2,000$ mg/kg Experimental result, Key study
LD 50 (Rat): 3,200 mg/kg Experimental result, Supporting study
LD 50 (Mouse): 507 mg/kg Experimental result, Supporting study
LD 50 (Rat): 319 mg/kg Experimental result, Supporting study

Dermal

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

Specified substance(s)

Carbon No data available.
sodium carbonate LD 50 (Rabbit): $> 2,000$ mg/kg Experimental result, Key study
iron (II) sulfate LD 50 (Rat): $> 2,000$ mg/kg Read-across based on grouping of substances (category approach), Key study

Inhalation

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

Specified substance(s)

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Carbon
sodium carbonate
No data available.
LC 50 (Mouse, 2 h)1,200 mg/m³ Aerosol, Experimental result, Supporting study
LC 50 (Rat, 2 h)2,300 mg/m³ Aerosol, Experimental result, Key study
LC 50 (Guinea pig, 2 h)800 mg/m³ Experimental result, Supporting study

iron (II) sulfate
No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Carbon
NOAEL (Rat(Male), Oral, 28 - 53 d): ≥ 859 mg/kg
NOAEL (Rat(female), Oral, 28 - 53 d): $\geq 1,521$ mg/kg
NOAEL (Rat(female), Oral, 28 - 53 d): ≥ 994 mg/kg
NOAEL (Rat(female), Oral, 28 - 53 d): $\geq 1,051$ mg/kg

sodium carbonate
No data available.

iron (II) sulfate
NOAEL (Rat(Male), Oral, 14 d): 125 mg/kg
NOAEL (Rat(Female, Male), Oral, 42 - 49 d): 100 mg/kg
NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m)
NOAEL (Rat(Female, Male), Oral, 42 - 49 d): $\geq 1,000$ mg/kg

Skin

Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Carbon
in vivo (Rabbit): Not irritant Experimental result, Key study

sodium carbonate
in vivo (Rabbit): Not irritant Experimental result, Supporting study

iron (II) sulfate
in vivo (Rabbit): Not irritant Experimental result, Key study
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.

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Specified substance(s)

Carbon	No data available.
sodium carbonate	in vivo (Rabbit, 48 hrs): Highly irritating
iron (II) sulfate	in vivo (Rabbit): Slightly irritating
	in vivo (Rabbit, 1 hrs): Not irritating
	in vivo (Rabbit, 2 d): Not irritating
	in vivo (Rabbit): Slightly irritating
	in vivo (Rabbit, 1 d): Not irritating
	in vivo (Rabbit): Slightly irritating
	in vivo (Rabbit, 3 d): Not irritating

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

In vivo

Product: No data available.

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.

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iron (II) sulfate No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

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Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

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

Specified substance(s)

Carbon	LL 50 (Danio rerio, 96 h): > 100 mg/l (Static) Experimental result, Key study LL 0 (Danio rerio, 96 h): >= 100 mg/l (Static) Experimental result, Key study
sodium carbonate	LC 50 (Gambusia affinis, 48 h): 840 mg/l (Static) Experimental result, Supporting study LC 50 (Gambusia affinis, 24 h): 1,200 mg/l (Static) Experimental result, Supporting study NOAEL (Gambusia affinis, 96 h): 560 mg/l (Static) Experimental result, Supporting study LC 50 (Lepomis macrochirus, 96 h): 300 mg/l (Static) Experimental result, Key study LC 50 (Gambusia affinis, 96 h): 740 mg/l (Static) Experimental result, Supporting study
iron (II) sulfate	No data available.

Aquatic Invertebrates

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

Specified substance(s)

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Carbon	NOAEL (Daphnia magna, 48 h): ≥ 100 mg/l (Static) Experimental result, Key study
sodium carbonate	EC 50 (Daphnia magna, 48 h): > 100 mg/l (Static) Experimental result, Key study
iron (II) sulfate	EC 50 (Ceriodaphnia sp., 48 h): 200 - 227 mg/l (semi-static) Experimental result, Key study
	No data available.

Chronic Toxicity

Fish

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

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

Aquatic Invertebrates

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

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

Toxicity to Aquatic Plants

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

Specified substance(s)

Carbon	No data available.
sodium carbonate	No data available.
iron (II) sulfate	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

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Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate 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

12.4 Mobility in soil:

Product: No data available.

Specified substance(s)

Carbon No data available.
sodium carbonate No data available.
iron (II) sulfate No data available.

12.5 Results of PBT and vPvB assessment:

Product: No data available.

Specified substance(s)

Carbon No data available.

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sodium carbonate No data available.

iron (II) sulfate No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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

SECTION 14: Transport information

ADR

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
Hazard No. (ADR): Not regulated.
Tunnel restriction code: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

ADN

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.

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Hazard No. (ADR):	Not regulated.
Tunnel restriction code:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

RID

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IMDG

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
EmS No.:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.

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14.6 Special precautions for user: Not regulated.

IATA

14.1 UN Number: Not regulated.
14.2 Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es):
Class: Not regulated.
Label(s): Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

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

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization

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(SVHC): none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
sodium carbonate	497-19-8	10 - 20%
iron (II) sulfate	7720-78-7	1.0 - 10%

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

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H228	Flammable solid.
H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Eye Irrit. 2A, H319

Issue Date: 24.03.2021
SDS No.: UN0000000000000260001-E-01
Disclaimer:

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