

Safety Data Sheet

according to HPR, Schedule 1

Printing date 09/07/2021

Reviewed on 09/07/2021

1 Identification

- **Product Identifier**
- **Trade name: Bio-Block (FOG)**
- **Application of the substance / the mixture** Wastewater treatment
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cartier Environmental Services Inc.
90, 50512 RR245 Leduc County, AB T4X 0P5
Phone: (780) 955-5520
- **Emergency telephone number:**
CANUTEC 24 Hr service
CANUTEC: 613.996.6666

2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Amides, coco, N,N-bis(hydroxyethyl)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
Triacylglycerol Lipase (solid)
Subtilisin
Amylase, alpha-

- **Hazard statements**

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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· Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
 P330 Rinse mouth.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center/doctor.
 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)	≥5-<10% w/w *
68411-30-3	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	≥3-<5% w/w *
68131-39-5	Alcohols, C12-15, ethoxylated	1-5% w/w *
12179-04-3	borax pentahydrate	1-5% w/w *
	Triacylglycerol Lipase (solid)	≥0.1-<1% w/w *
9014-01-1	Subtilisin	≥0.1-<1% w/w *
9000-90-2	Amylase, alpha-	≥0.1-<1% w/w *

* Actual concentration ranges are withheld as a trade secret.

· Additional information

The specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of first aid measures**· General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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 Immediately call a doctor.

· Information for doctor Show this safety data sheet to the doctor in attendance.

· Most important symptoms and effects, both acute and delayed

The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.

No further relevant information available.

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

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
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** Self-contained breathing apparatus
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- Ensure adequate ventilation
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Pick up mechanically.
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

- **Handling**
- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **Storage class** 11
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/ Personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

12179-04-3 borax pentahydrate (1-5%)

EL	STEL: 6 mg/m ³ TWA: 2 mg/m ³
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EV	STEL: 6 mg/m ³ TWA: 2 mg/m ³
----	---

9014-01-1 Subtilisin (≥0.1-<1%)

EL	Ceiling: 0.00006 mg/m ³ S(R)
----	--

EV	Ceiling: 0.00006 mg/m ³
----	------------------------------------

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

- **Exposure controls** Use local exhaust ventilation to control airborne concentrations below exposure limits.

- **Personal protective equipment**

- **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

Refer to CSA Standard Z94.4 for "Selection, Use and Care of Respirators".

- **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

- **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.

- **Protective Gloves** I.E., Nitrile, Viton, Neoprene

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid.

Color: Pink

- **Odor:** Characteristic

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· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition Melting point/Melting range:	undetermined
Boiling point/Boiling range:	100 °C
· Flash point:	94 °C
· Flammability (solid, gaseous)	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.8 %
Water:	0.8 %
Solids content:	100.0 %
· Other information	The above data are typical values and do not constitute a specification. *Properties have been calculated.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under recommended storage conditions
- **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:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

68603-42-9 Amides, coco, N,N-bis(hydroxyethyl)

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

12179-04-3 borax pentahydrate

Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

9014-01-1 Subtilisin

Oral	LD50	2,000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the eye:** Strong irritant with the danger of severe eye injury.

- **Sensitization:** Sensitization possible through inhalation.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

68603-42-9 Amides, coco, N,N-bis(hydroxyethyl)

LC50/ 96 h	6.7 mg/l (Danio rerio)
LC50 / 24 h	3.3 mg/l (Daphnia)

68131-39-5 Alcohols, C12-15, ethoxylated

LC50	1.4 mg/l (Pimephales promelas (Fathead minnow))
EC50	0.14 mg/l (Daphnia magna) (48 hours)
ErC50	0.75 mg/l (Senastrum capricornutum) (96 hours)

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Dispose of in accordance with local, state, and federal regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|-----------------------------------|
| · UN-Number | |
| · DOT/TDG, ADR, IMDG, IATA | not classified as dangerous goods |
| · UN proper shipping name | |
| · DOT/TDG, ADR, IMDG, IATA | not classified as dangerous goods |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | not classified as dangerous goods |
| · Packing group | |
| · DOT/TDG, ADR, IMDG, IATA | not classified as dangerous goods |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | not classified as dangerous goods |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

- **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL): (Substances not listed)**

All ingredients are listed.

- **Canadian Non-Domestic Substances List (NDSL): (Substances not listed)**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS07



GHS08

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 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- **Relevant phrases**

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.

CES does not warranty any translation of this SDS not created by CES

- **Date of the latest revision of the safety data sheet** 09/07/2021 / -

- **Abbreviations and acronyms:**

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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

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