

SECTION 1: Identification			
1.1. Identification			
Product name	: BioChar		
1.2. Relevant identified uses of the sub-	stance or mixture and uses advised aga	ainst	
Use of the substance/mixture	: Soil amendment mix		
1.3. Details of the supplier of the safety Freres Lumber Co. Inc.	data sneet		
P.O Box 276			
Lyons, OR 97358			
·			
1.4. Emergency telephone number			
Emergency number	: 503-859-2121		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or r			
	Interv		
GHS US classification			
Skin Irrit. 2 H315 Eye Irrit. 2 H319			
,			
2.2. Label elements			
GHS US labeling			
Hazard pictograms (GHS US)			
	•		
	GHS07		
Signal word (GHS US)	: Warning		
Hazard statements (GHS US)	: H315 - Causes skin irritation		
	H319 - Causes serious eye irritation		11:
Precautionary statements (GHS US)	: P264 - Wash hands, forearms and fac P280 - Wear protective gloves/protec		
	P302+P352 - If on skin: Wash with pl	enty of water.	
	P305+P351+P338 - IF IN EYES: Rins contact lenses, if present and easy to		for several minutes. Remove
	P321 - Specific treatment (see supple		on on this label).
	P332+P313 - If skin irritation occurs:	Get medical advice/atte	ntion.
	P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated (
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/Information	on on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	
Chlorine	(CAS-No.) 7782-50-5	<2	
Sodium	(CAS-No.) 7440-23-5	> 1	
		1	

Iron

06/04/2021

Other trace components

-

(CAS-No.) 7439-89-6

> 1

Balance

Safety Data Sheet

SECTION 4: First aid measures			
4.1. Description of first aid			
First-aid measures after inhalation		h air. If not breathing, give artificial respiration. If breathing is difficult, give	
	oxygen. Get me	edical attention.	
First-aid measures after skin cont	advice/attentior		
First-aid measures after eye conta	act : Flush with plen persists.	ty of water for at least 15 minutes. Seek medical advice if irritation develops or	
First-aid measures after ingestion			
	oms and effects, both acute and		
Symptoms/effects after inhalation			
Symptoms/effects after skin conta			
Symptoms/effects after eye conta		-	
Symptoms/effects after ingestion	: May be harmfu	l if swallowed.	
4.3. Indication of any imm	ediate medical attention and spe	ecial treatment needed	
No additional information availabl	e		
SECTION 5: Firefighting	neasures		
5.1. Extinguishing media			
Suitable extinguishing media	: Use suitable ex	tinguishing media for surrounding fire.	
Unsuitable extinguishing media	: None.		
5.2. Special hazards arisin	g from the substance or mixture	e	
Fire hazard	: When heated to	o decomposition, emits toxic fumes.	
Explosion hazard	: None known.		
5.3. Advice for firefighters			
Protection during firefighting		ould wear full protective gear.	
SECTION 6: Accidental re	elease measures		
	, protective equipment and emer	rgency procedures	
6.1.1. For non-emergency p			
No additional information availabl			
6.1.2. For emergency respo	nders		
No additional information availabl			
6.2. Environmental precau	tions		
None.			
	for containment and cleaning u	n	
	for containment and cleaning u		
	or containment : No special measures required.		
Aethods for cleaning up : Collect spilled material and place in sealed containers for reclamation or disposal.			
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.			
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions : No special storage conditions required.			
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Chlorine (7782-50-5)			
ACGIH OEL TWA [ppm] 0.1 ppm			
ACGIH ACGIH OEL STEL [ppm] 0.4 ppm			
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Safety Data Sheet

OSHA PEL (Ceiling)	3 mg/m³		
OSHA PEL C [ppm]	1 ppm		
IDLH [ppm]	10 ppm		
NIOSH REL (Ceiling)	1.45 mg/m³		
NIOSH REL C [ppm]	0.5 ppm		
Sodium (7440-23-5)			
Not applicable			
Iron (7439-89-6)			
Not applicable			
	OSHA PEL C [ppm] IDLH [ppm] NIOSH REL (Ceiling)		

8.2. Exposure controls	
Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: Wear impervious gloves to minimize skin contact.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable working clothes.

Respiratory protection

SECTION 9: Physical and chemical properties

: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Physical state : Solid Color : Black to dark gray Odor : Black to dark gray Odor : Burnt wood Odor threshold : No data available PH : No data available Prezing point : No data available Prezing point : No data available Boiling point : No data available Prezing point : No data available Boiling point : No data available Planmability (solid, gas) : No data available Planmability (solid, gas) : No data available Relative vapor density at 20 °C : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, dynamic : No data available Viscosity, dynamic : No data available Viscosity, dynamic : No data available Stylosity orpereise : No data available Viscosity, dynamic : No data available Viscosity, dynamic : No data available Viscosity, dynamic : No data available Viscosity, d	9.1. Information on basic physical and ch	9.1. Information on basic physical and chemical properties		
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	No additional information available			
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10.3.	Possibility of hazardous reactions		
Will not	occur.		
10.4.	Conditions to avoid		
None.			
10.5.	Incompatible materials		
Not det	Not determined.		
10.6.	Hazardous decomposition products		
Not determined.			
SECTION 11: Toxicological information			
11.1.			
Acute to	oxicity : Not classified		

Chlorine (7782-50-5)		
LD50 oral rat	6800 mg/kg	
LC50 Inhalation - Rat [ppm]	293 ppm/1h	
ATE US (gases)	700 ppm/4h	
Iron (7439-89-6)		
LD50 oral rat	30 g/kg	
ATE US (oral)	984 mg/kg	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	Serious eye damage/irritation : Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Chlorine (7782-50-5)	
LC50 - Fish [1]	0.44 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	0.017 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	0.014 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential Chlorine (7782-50-5) BCF - Fish [1] Sodium (7440-23-5)

(no bioaccumulation expected)

12.4. Mobility in soil

BCF - Fish [1]

No additional information available

Safety Data Sheet

Effect on the ozone layer : No additional information available SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Not applicable SECTION 15: Regulatory information			
SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Not applicable SECTION 15: Regulatory information SECTION 15: Regulatory information SECTION 15: Regulatory information Isted on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313 CECILA RQ Quantity (TPQ) SARA Section 313 - Emission Reporting Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 313 CERCLA RQ 100 Ib SARA Section 313 - Emission Reporting CERCLA RQ 100 Ib Sature Colspan="2">Control Act) inventory <td colspa<="" td=""><td>12.5. Other adverse effects</td><td></td></td>	<td>12.5. Other adverse effects</td> <td></td>	12.5. Other adverse effects	
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Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 10 lb SARA Section 302 Threshold Planning Quantity (TPQ) 100 lb SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) 1 Listed on the United States TSCA (Toxic Substatures Control Act) inventory 10 lb CERCLA RQ 10 lb Isted on the United States TSCA (Toxic Substatures Control Act) inventory 10 lb Iron (7439-89-6) 10 lb		nces Control Act) inventory	
CERCLA RQ 10 lb SARA Section 302 Threshold Planning 100 lb Quantity (TPQ) 100 lb SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Isted on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6) In lb			
Quantity (TPQ) Image: SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Image: Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substates Control Act) inventory Image: Sodium (7439-89-6) Iron (7439-89-6) Image: Sodium (Text Substates Control Act) (Text Substates C	, , , ,		
Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)		100 lb	
Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)	SARA Section 313 - Emission Reporting	1 %	
CERCLA RQ 10 lb Iron (7439-89-6) 10 lb	Sodium (7440-23-5)		
Iron (7439-89-6)	Listed on the United States TSCA (Toxic Substances Control Act) inventory		
	CERCLA RQ 10 lb		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
	Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory	

15.2. US State regulations

Chlorine (7782-50-5)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium (7440-23-5)

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.