

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

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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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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		
Odor       :       Burnt wood         Odor threshold       :       No data available         pH       :       No data available         Welting point       :       No data available         Freezing point       :       No data available         Bolling point       :       No data available         Relative evaporation rate (butyl acetate=1)       :       No data available         Relative evaporation rate (butyl acetate=1)       :       No data available         Relative vapor density at 20 °C       :       No data available         Relative vapor density at 20 °C       :       No data available         Relative vapor density at 20 °C       :       No data available         Relative density       :       No data available         Relative foreint n-octanol/water (Log Pow)       :       No data available         Partition coefficient n-octanol/water (Log Pow)       :       No data available         Poctonyosition temperature       :       No data available         Viscosity, kinematic       :       No data available         Viscosity, kinematic       :       No data available         Explosive properies       :       No data available         Stylosion immits       :       No data availa	Physical state			
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Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available 9.2. Other information No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability	Decomposition temperature	: No data available		
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Explosive properties       : No data available         Oxidizing properties       : No data available         9.2.       Other information         No additional information available         SECTION 10: Stability and reactivity         10.1.       Reactivity         No additional information available         10.2.       Chemical stability	Viscosity, dynamic			
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9.2. Other information         No additional information available         SECTION 10: Stability and reactivity         10.1. Reactivity         No additional information available         10.2. Chemical stability	Explosive properties			
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SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability	9.2. Other information			
10.1.     Reactivity       No additional information available       10.2.     Chemical stability	No additional information available			
No additional information available 10.2. Chemical stability	SECTION 10: Stability and reactivity			
10.2. Chemical stability	10.1. Reactivity			
	No additional information available			
The product is stable at normal handling and starge conditions	10.2. Chemical stability			
חופ איטעט וא אינא אינא אינא אינא אינא אינא אינא א	The product is stable at normal handling and stora	age conditions.		

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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	

<b>SECTION 12: Ecological information</b>	
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

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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	
13.1. Waste treatment methods <ul> <li>Product/Packaging disposal recommendations</li> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>SECTION 14: Transport information</li> <li>Department of Transportation (DOT)             <ul></ul></li></ul>	Effect on the ozone layer	: No additional information available	
13.1. Waste treatment methods <ul> <li>Product/Packaging disposal recommendations</li> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>SECTION 14: Transport information</li> <li>Department of Transportation (DOT)             <ul></ul></li></ul>			
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       In accordance with DOT         Not applicable       SECTION 15: Regulatory information         SECTION 15: Regulatory information       Information         15.1. US Federal regulations       Section 302         Chorine (7782-50-5)       Isted on the United States SCA (Toxic Substances Control Act) inventory         Listed on the United States SARA Section 302       Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       10 lb         SARA Section 302 Threshold Planning       100 lb         Quantity (TPQ)       SARA Section 313 - Emission Reporting       1 %         Sodium (7440-23-5)       Isted on the United States TSCA (Toxic Substances Control Act) inventory       Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb       Isted on the United States TSCA (Toxic Substances Control Act) inventory       Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb       Isted on the United States TSCA (Toxic Substances Control Act) inventory       Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb<	<b>SECTION 13: Disposal considerations</b>	5	
regulations.         SECTION 14: Transport information         Department of Transportation (DOT)         In accordance with DOT         Not applicable         SECTION 15: Regulatory information         SECTION 15: Regulatory information         15.1. US Federal regulations         Chlorine (7782-50-5)         Listed 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         CERCLA RQ         10 lb       100 lb         SARA Section 302 Threshold Planning         Quantity (TPQ)       100 lb         SARA Section 313 - Emission Reporting         Usited on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ         100 lb         Sodium (7440-23-5)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       CERCLA RQ         Choric Substances Control Act) inventory         CERCLA RQ       10 lb         Interview of the United States TSCA (Toxic Substances Control Act) inventory </td <td>13.1. Waste treatment methods</td> <td></td>	13.1. Waste treatment methods		
Department of Transportation (DOT)         In accordance with DOT         Not applicable         SECTION 15: Regulatory information         SECTION 15: Regulatory information         Istaed 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         CERCLA RQ       10 lb         Quantity (TPQ)       100 lb         SARA Section 313 - Emission Reporting       1 %         Sodium (7440-23-5)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Sodium (7440-23-5)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Intervision Reporting         1 %	Product/Packaging disposal recommendations		
In accordance with DOT Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations Chlorine (7782-50-5) Listed 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 CERCLA RQ 10 lb SARA Section 302 Threshold Planning 100 lb Quantity (TPQ) SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)	SECTION 14: Transport information		
Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations Chlorine (7782-50-5) Listed 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 CERCLA RQ 10 lb SARA Section 302 Threshold Planning 100 lb GARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)	Department of Transportation (DOT)		
SECTION 15: Regulatory information         SECTION 15: Regulatory information         ISIN Provide States Provide States Second States States Second States States Second States States States Second States	In accordance with DOT		
15.1. US Federal regulations         Chlorine (7782-50-5)         Listed 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         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)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       10 lb         Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Isted on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Iron (7439-89-6)	Not applicable		
Chlorine (7782-50-5)         Listed 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 302 Threshold Planning       10 lb         Quantity (TPQ)       100 lb         SARA Section 313 - Emission Reporting       1 %         Sodium (7440-23-5)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         CERCLA RQ       10 lb         Sodium (7439-89-6)	<b>SECTION 15: Regulatory information</b>		
Listed 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 CERCLA RQ 10 lb SARA Section 302 Threshold Planning Quantity (TPQ) 100 lb SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)	15.1. US Federal regulations		
Listed 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 CERCLA RQ 10 lb SARA Section 302 Threshold Planning Quantity (TPQ) 100 lb SARA Section 313 - Emission Reporting 1 % Sodium (7440-23-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)			
Listed on the United States SARA Section 302 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) Listed on the United States TSCA (Toxic Substatues Control Act) inventory CERCLA RQ 10 lb Iron (7439-89-6)	Chlorine (7782-50-5)		
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.