



DEPARTMENT OF  
ECOLOGY

State of Washington

# Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

## SECTION A. GENERAL INFORMATION

1. Applicant Name: Boundary Fish Company
2. Facility Name: \_\_\_\_\_  
(if different from Applicant)
3. Applicant Mail Address: P.O. Box 2929  
Street  
Blaine, WA 98231 98231  
City/State Zip
4. Facility Location Address: 223 Sigurdson Ave  
(if different from 3 above) Street  
Blaine, WA 98230  
City/State Zip
5. UBI No. 372 001 617  
Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a Master Business Application to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.
6. Latitude/longitude of the facility as decimal degrees (NAD83/WGS84):  
48° 59' 34" N / 122° 45' 48" W

RECEIVED

OCT 17 2019

DEPARTMENT OF ECOLOGY

FOR OFFICE USE ONLY		Check One: New/Renewal <input type="checkbox"/> Modification <input type="checkbox"/>	
Date Application Received	Date Fee Paid	Application/Permit No.	Date Application Accepted

RECEIVED

NOV 07 2016

7. Person to contact who is familiar with the information contained in this application:

Arnold Yuki  
Name

Manager  
Title

360 332-6715  
Telephone number

360 332-6205  
Fax number

8. Check One:

☐ **Permit Renewal** (including renewal of temporary permits)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☐ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

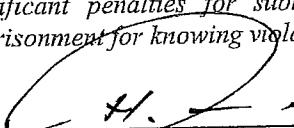
☐ **Permit Modification**

☐ **Existing Unpermitted Discharge**

☒ **Proposed Discharge**

Anticipated date of discharge: 10/20/16

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.*

  
Signature\*


Nov 2, 2016  
Date

PRESIDENT  
Title

HENRY YUKI  
Printed Name

\*Applications must be signed as follows: corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

  
Signature of delegated employee

NOV 2, 2016  
Date

GENERAL MANAGER  
Title or function at the facility

ARNOLD YUKI  
Printed name

## SECTION B. PRODUCT INFORMATION

- Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System*, 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (<http://www.census.gov/epcd/naics/frames3.htm>).

Description:

We gut, head, and fillet fish.

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
Grapes (Example)		1,000 tons per year
Fish		350,000 lbs per year
Type	PRODUCTS	Quantity
Grape Juice(Example)		300,000 gallons per year

### SECTION C. PLANT OPERATIONAL CHARACTERISTICS

- For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Butcher Fish	Washdown	001	B


2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. (See the example on page 16 of this application form.)

3. What is the maximum daily wastewater discharge flow?

~~1000~~ <sup>Actual</sup> gallons/day 950

What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)?

~~10000~~ <sup>Actual</sup> gallons/day 9,500

4. Describe any planned wastewater treatment improvements or changes in wastewater disposal methods, and the schedule for these improvements. (Use additional sheets, if necessary and label as attachment C4.)

None

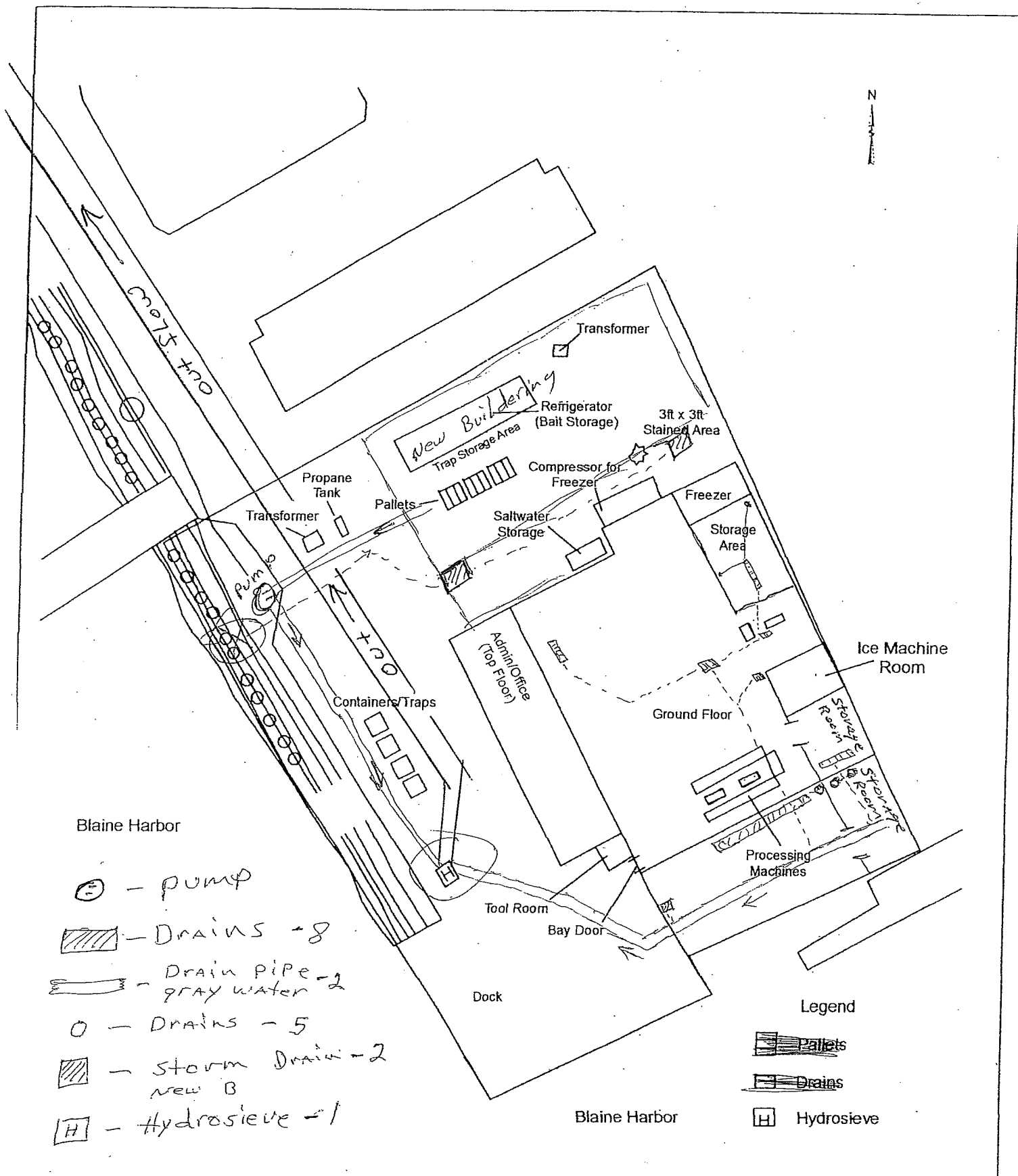
5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow unit by checking one of the following boxes:

☐ gallons per day

☒ gallons per month

☐ million gallons per month

Waste Stream ID#	MONTHS											
	J	F	M	A	M	J	J	A	S	O	N	D



Boundary Fish Co.  
223 Sigurdson Ave., Blaine  
Site Map 6-2009

Creation Date: 6-18-2009  
Project Manager: J. Strayer  
Project: 6684

A.Y.

City Sanitary Svc.						<del>10,000</del>	<del>10,000</del>	<del>10,000</del>	<del>10,000</del>	<del>10,000</del>		
						9,500	9,500	9,500	9,500	9,500		
Estimated Total Monthly Flow (GPD)						<del>10,000</del>	<del>10,000</del>	<del>10,000</del>	<del>10,000</del>	<del>10,000</del>		

9,500 9,500 9,500 9,500 9,500

A.1.

6. How many hours a day does this facility typically operate? 8
- How many days a week does this facility typically operate? 2.5
- How many weeks per year does this facility typically operate? 50

7. List all incidental materials, such as oil, paint, grease, solvents, and cleaners, that are used or stored on site (list only those with quantities greater than 10 gallons for liquids and 50 pounds for solids). For solvents and solvent-based cleaners, include a copy of the material safety data sheet and estimate the quantity used. (Use additional sheets, if necessary, and label as attachment C.7.)

Materials/Quantity Stored:

Bo Sol Concentrate - 50 gallons  
 Super Red Plus - 50 gallons  
 Bleach - 50 gallons

8. Some types of facilities are required to have spill or waste control plans. Does this facility have:
- |  | Yes                      | No                                  |
|--|--------------------------|-------------------------------------|
| a. A spill prevention, control, and countermeasure plan (40 CFR 112)?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. An Oil Spill Contingency Plan (chapter 173-182 WAC)?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. An emergency response plan (per WAC 173-303-350)?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

f. A solid waste control plan? yes

g. A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?

yes ☒ ☐

#### SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

- ☒ Public System (Specify) City of Blaine (system # 073000)
- ☐ Private Well ☐ Surface Water

a. Water Right Permit Number: \_\_\_\_\_

b. Legal Description of Water Source

\_\_\_\_\_,  $\frac{1}{4}$ S, \_\_\_\_\_,  $\frac{1}{4}$ E, \_\_\_\_\_, Section, \_\_\_\_\_ TWN, \_\_\_\_\_ R

2. Potable water use

a. Indicate total water use \_\_\_\_\_

Gallons per day (average) \_\_\_\_\_

Gallons per day (maximum) \_\_\_\_\_

b. Is water metered?

☒ YES ☐ NO

## SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

Intake: meter  
 Effluent: not metered

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including *E. coli*), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)), or volatile organics.

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☐ YES ☒ NO  
 If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. (*Note: Ecology may require additional testing.*)

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

BOD and TSS are composite samples taken 5 times in a 24 hour period  
 Fecal Coliform and Oil and Grease were both grab samples

X	Parameter	Measurement Values	Number of	Analytical Method Std. Methods 19" 20"	Detection Limit/Quantitation
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		Minimum	Maximum	Average	Analyses	edition or EPA	Level
X	BOD (5 day)			260		SM 5210 B	/2 mg/l
	COD					SM 5220 D	/10 mg/l
X	Total suspended solids			510		SM 2540 D	/5 mg/l
	Fixed Dissolved Solids					SM 2540 E	
	Total dissolved solids					SM 2540 C	
	Conductivity (micromhos/cm)					SM 2510 B	
	Ammonia-N as N					SM 4500-NH <sub>3</sub> C	/0.3 mg/L
X	pH	6.8	7.4	7.2		SM 4500-H	0.1 standard units
X	Fecal coliform (organisms/100 mL)	23	30	26.5		SM 9221 E or 9222 D	
	Total coliform (organisms/100 mL)					SM 9221 B or 9222 B	
	Dissolved oxygen					SM 4500-O C/G	
	Nitrate + nitrite-N as N					SM 4500-NO <sub>3</sub> E	100 µg/L
	Total kjeldahl N as N					SM 4500-N <sub>org</sub> C/E/FG	300 µg/l
	Ortho-phosphate-P as P					SM 4500-P E/F	10 µg/l
	Total-phosphorous-P as P					SM 4500-P E/P/F	10 µg/l
X	Total Oil & grease			15		EPA 1664A	1.4/5 mg/l
	NWTPH - Dx					Ecology NWTPH Dx	250/250 µg/l
	NWTPH - Gx					Ecology NWTPH Gx	250/250 µg/l
	Calcium					EPA 200.7	10 µg/l
	Chloride					SM 4500-Cl C	0.15 µg/l
	Fluoride					SM 4500-F E	.025/0.1 mg/l
	Magnesium					EPA 200.7	10/50 µg/l
	Potassium					EPA 200.7	700/ µg/l
	Sodium					EPA 200.7	29/ µg/l
	Sulfate					SM 4500-SO <sub>4</sub> C/D	/200 µg/l
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l
/	Barium (total)					EPA 200.8	0.5/2 µg/l
	Cadmium (total)					EPA 200.8	.05/.25 µg/l

Chromium (total)				EPA 200.8	0.2/1 µg/l
Copper (total)				EPA 200.8	0.4/2 µg/l
Lead (total)				EPA 200.8	0.1/5 µg/l
Mercury (total) pg/L				EPA 1631E	0.2/0.5 pg/l
Molybdenum (total)				EPA 200.8	0.1/0.5 µg/l
Nickel (total)				EPA 200.8	0.1/0.5 µg/l
Selenium (total)				EPA 200.8	1/1 µg/l
Silver (total)				EPA 200.8	.04/2 µg/l
Zinc (total)				EPA 200.8	0.5/2.5 µg/l

6. Does this facility use any of the following chemicals as raw materials or produce them as part of the manufacturing process, or are they present in the wastewater? ☐ YES ☒ NO

*(The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.)*

If yes, specify how the chemical is used and the quantity used or produced:

METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total	7440-36-0	Nickel, Total	7440-02-0
Arsenic, Total	7440-38-2	Selenium, Total	7782-49-2
Beryllium, Total	7440-41-7	Silver, Total	7440-22-4
Cadmium, Total	7440-43-9	Thallium, Total	7440-28-0
Chromium (hex) dissolved	18540-29-9	Zinc, Total	7440-66-6
Chromium, Total	7440-47-3		
Copper, Total	7440-50-8	Cyanide, Total	57-12-5
Lead, Total	7439-92-1	Cyanide, Weak Acid Dissociable	
Mercury, Total	7439-97-6	Phenols, Total	

PESTICIDES			
Aldrin	309-00-2	Endrin	72-20-8
alpha-BHC	319-84-6	Endrin Aldehyde	7421-93-4
beta-BHC	319-85-7	Heptachlor	76-44-8
gamma-BHC	58-89-9	Heptachlor Epoxide	1024-57-3
delta-BHC	319-86-8	PCB-1242	53469-21-9
Chlordane	57-74-9	PCB-1254	11097-69-1
4,4'-DDT	50-29-3	PCB-1221	11104-28-2
4,4'-DDE	72-55-9	PCB-1232	11141-16-5
4,4' DDD	72-54-8	PCB-1248	12672-29-6
Dieldrin	60-57-1	PCB-1260	11096-82-5
alpha-Endosulfan	959-98-8	PCB-1016	12674-11-2
beta-Endosulfan	33213-65-9	Toxaphene	8001-35-2
Endosulfan Sulfate	1031-07-8		

VOLATILE COMPOUNDS			
Acrolein	107-02-8		
Acrylonitrile	107-13-1	1,1-Dichloroethylene	75-35-4
Benzene	71-43-2	1,2-Dichloropropane	78-87-5
Bromoform	75-25-2	1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)	542-75-6
Carbon tetrachloride	56-23-5	Ethylbenzene	100-41-4
Chlorobenzene	108-90-7	Methyl bromide (Bromomethane)	74-83-9
Chloroethane	75-00-3	Methyl chloride (Chloromethane)	74-87-3
2-Chloroethylvinyl Ether	110-75-8	Methylene chloride	75-09-2
Chloroform	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Dibromochloromethane	124-48-1	Tetrachloroethylene	127-18-4
1,2-Dichlorobenzene	95-50-1	Toluene (108-88-3)	
1,3-Dichlorobenzene	(541-73-1)	1,2-Trans-Dichloroethylene (Ethylene dichloride)	156-60-5
1,4-Dichlorobenzene	106-46-7	1,1,1-Trichloroethane	71-55-6
Dichlorobromomethane	75-27-4	1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3	Trichloroethylene	79-01-6
1,2-Dichloroethane	107-06-2	Vinyl chloride	75-01-4

ACID COMPOUNDS			
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2-Chlorophenol	95-57-8	4-nitrophenol	100-02-7
2,4-Dichlorophenol	120-83-2	Parachlorometa cresol (4-chloro-3-methylphenol)	59-50-7
2,4-Dimethylphenol	105-67-9	Pentachlorophenol	87-86-5
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	534-52-1	Phenol	108-95-2
2,4 dinitrophenol	51-28-5	2,4,6-Trichlorophenol	88-06-2
2-Nitrophenol	88-75-5		

BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene	83-32-9	3,3-Dichlorobenzidine	91-94-1
Acenaphthylene	208-96-8	Diethyl phthalate	84-66-2
Anthracene	120-12-7	Dimethyl phthalate	131-11-3
Benzidine	92-87-5	Di-n-butyl phthalate)	84-74-2
Benzyl butyl phthalate	85-68-7	2,4-dinitrotoluene	121-14-2
Benzo(a)anthracene	56-55-3	2,6-dinitrotoluene	606-20-2
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	Di-n-octyl phthalate	117-84-0
<b>Benzo(j)fluoranthene</b>	<b>205-82-3</b>	1,2-Diphenylhydrazine (as <i>Azobenzene</i> )	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
<b>Benzo(r,s,t)pentaphene</b>	<b>189-55-9</b>	Fluorene	86-73-7
Benzo(a)pyrene	50-32-8	Hexachlorobenzene	118-74-1
Benzo(ghi)Perylene	191-24-2	Hexachlorobutadiene	87-68-3
Bis(2-chloroethoxy)methane	111-91-1	Hexachlorocyclopentadiene	77-47-4
Bis(2-chloroethyl)ether	111-44-4	Hexachloroethane	67-72-1
Bis(2-chloroisopropyl)ether	39638-32-9	Indeno(1,2,3-cd)Pyrene	193-39-5
Bis(2-ethylhexyl)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	<b>3-Methyl cholanthrene</b>	<b>56-49-5</b>
2-Chloronaphthalene	91-58-7	Naphthalene	91-20-3
4-Chlorophenyl phenyl ether	7005-72-3	Nitrobenzene	98-95-3
Chrysene	218-01-9	N-Nitrosodimethylamine	62-75-9
<b>Dibenzo (a,i)acridine</b>	<b>224-42-0</b>	N-Nitrosodi-n-propylamine	621-64-7
<b>Dibenzo (a,h)acridine</b>	<b>226-36-8</b>	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-h)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	<b>Perylene</b>	<b>198-55-0</b>
Dibenzo(a,e)pyrene	192-65-4	Phenanthrene	85-01-8
Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0
		1,2,4-Trichlorobenzene	120-82-1

7. Are any other pesticides, herbicides or fungicides used at this facility? ☐ YES ☒ NO  
If yes, specify the material and quantity used:

8. Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO  
If yes, specify the pollutants and their concentration if known  
(attach laboratory analyses if available as Attachment E8):

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

☐ YES ☒ NO ☐ DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste (check appropriate box)?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste ☐ Dangerous Waste Number(s) \_\_\_\_\_

Characteristic Wastes Dangerous Waste Number(s) \_\_\_\_\_

Ignitable ☐

Reactive ☐

Corrosive ☐

TCLP ☐

State Only Dangerous Wastes Dangerous Waste Number(s) \_\_\_\_\_

Toxicity ☐

Persistent ☐

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue	(425) 649-7000
Southwest Regional Office - Lacey	(360) 407-6300
Central Regional Office - Yakima	(509) 575-2490
Eastern Regional Office - Spokane	(509) 329-3400

## SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? ☒ YES ☐ NO

*If yes, attach a map or hand drawing of the facility that shows the location of these structures (Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your facility.)*

## **SECTION G. OTHER PERMITS**

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

## SECTION H. STORMWATER

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General Permit?

☒ YES ☐ NO

If yes, please list the permit number here. 503-001010

If no, have you applied for a Washington State Stormwater Industrial Stormwater General Permit?

☐ YES ☐ NO

If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

- ☐ To storm sewer system *(provide name of storm sewer system operator: \_\_\_\_\_)*
- ☐ Directly to any surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean).*

Specify waterbody name(s) \_\_\_\_\_

- ☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first).*
- ☐ To a Sanitary Sewer
- ☐ Directly to ground waters of Washington State via:
- ☐ Dry well
  - ☐ Drainfield
  - ☐ Other

3. Areas with industrial activities at facility: *(check all that apply)*

- ☐ Manufacturing Building
- ☐ Material Handling
- ☐ Material Storage
- ☐ Hazardous Waste Treatment, Storage, or Disposal *(Refers to RCRA, Subtitle C Facilities Only)*
- ☐ Waste Treatment, Storage, or Disposal
- ☐ Application or Disposal of Wastewaters
- ☐ Storage and Maintenance of Material Handling Equipment
- ☐ Vehicle Maintenance
- ☐ Areas Where Significant Materials Remain
- ☐ Access Roads and Rail Lines for Shipping and Receiving
- ☐ Other (please specify): \_\_\_\_\_

4. Material handling/management practices

a. Types of materials handled and/or stored outdoors: *(check all that apply)*

- |  |   |
|--|---|
| <input type="checkbox"/> Solvents                            | <input type="checkbox"/> Hazardous Wastes                   |
| <input type="checkbox"/> Scrap Metal                         | <input type="checkbox"/> Acids or Alkalies                  |
| <input type="checkbox"/> Petroleum or Petrochemical Products | <input type="checkbox"/> Paints/Coatings                    |
| <input type="checkbox"/> Plating Products                    | <input type="checkbox"/> Woodtreating Products              |
| <input type="checkbox"/> Pesticides                          | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

b. Identify existing management practices employed to reduce pollutants in industrial stormwater discharges: *(check all that apply)*

- |  |   |
|--|---|
| <input type="checkbox"/> Oil/Water Separator         | <input type="checkbox"/> Detention Facilities               |
| <input type="checkbox"/> Containment                 | <input type="checkbox"/> Infiltration Basins                |
| <input type="checkbox"/> Spill Prevention            | <input type="checkbox"/> Operational BMPs                   |
| <input type="checkbox"/> Surface Leachate Collection | <input type="checkbox"/> Vegetation Management              |
| <input type="checkbox"/> Overhead Coverage           | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

5. Attach a facility site map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available *(See example on page 16 of this application)*. Label this as attachment H.5.

### SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated by your facility that are not disposed of in the waste stream(s) and how they are being disposed of. For each type of waste, provide type of waste and the name, address, and phone number of the hauler.

*None generated that discharges to Sanitary Service*

2. Describe storage areas for raw materials, products, and wastes.

*warehouse*

3. Have you designated the wastes described above according to the applicable ☐ YES ☒ NO procedures of Dangerous Waste Regulations, Chapter 173-303 WAC?

### SECTION J. CERTIFICATIONS

1. Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]



*I approve of the discharge as described in this application. The applicant is:*

(Please check the appropriate box below.)


- ☐ A Significant Industrial User (see Definitions at the end of this Section)
- ☐ A Categorical Industrial User
- ☒ Neither of the above

Name and location of sewer system to which this project will be tributary:

Treatment Works Owner: CITY OF BLAINE

Street: 435 MARTIN ST

City/State: BLAINE Zip: 98230

 10/8/19 PUBLIC WORKS  
Signature of Treatment Works Authority Date Title

RAVYN WHITEWOLF  
Printed Name

2. **Application review by Intermediate Sewer Owner at point of discharge (if applicable)**

*I hereby acknowledge that I have reviewed the application for discharge to this sewer system.*

Name and location of sewer system to which this project will be tributary:

Sewer System Owner: \_\_\_\_\_

Street: \_\_\_\_\_

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_

\_\_\_\_\_  
Signature of Sewer System Authority Date Title

\_\_\_\_\_  
Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)

Example 2 for application section F1 or H8 (FACILITY SITE MAP)



## DEFINITIONS

### Significant Industrial User (SIU)--

- 1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and
- 2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

**Control Authority** - means the Washington State Department of Ecology in the case of non-delegated POTWs or means the POTW in the case of delegated POTWs.

**Categoric Industrial User (CIU):** An industrial user subject to national categorical pretreatment standards promulgated by EPA (40 CFR 403.6 and 40 CFR parts 405-471).

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### Summary of Attachments That May be Required for This Application:

*(Please check those attachments that are included)*

- ☐ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☐ C.7. Additional incidental materials
- ☐ E.8. Additional results of effluent testing
- ☐ F.1. Facility site map
- ☐ H.5. Stormwater drainage map

*If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

# Bio Sol Concentrate

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product Identifier : Mixture  
Product form : Bio Sol Concentrate  
Product name : 80004  
Product code :

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

1.3. Details of the supplier of the safety data sheet

Davidson Distributing  
3841 First Ave. South  
Seattle, WA, 98134  
T 1-206-285-1766 - F 1-206-285-1799  
info@davidsondist.com

1.4. Emergency telephone number : 1-800-424-9300  
Emergency number : ChemTec

### SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification  
Flam. Liq. Not classified  
Met. Corr. Not classified  
Acute Tox. 4 (Oral)

H302

2.2. Label elements

GHS-US labelling  
Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H302 - Harmful if swallowed  
Precautionary statements (GHS-US) : P264 - Wash ... thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell  
P330 - If swallowed, rinse mouth  
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases, see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Mixed Quaternary Ammonium Chlorides		8 - 12	Flam. Liq. 3, H226 Met. Corr. 1, H290 Acute Tox. 2 (Oral), H300

# Bio Sol Concentrate

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after Inhalation

: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after Ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after Ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

#### 5.2 Special hazards arising from the substance or mixture

No additional information available

#### 5.3 Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

: Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1 For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

##### 6.1.2 For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

#### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3 Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Methods for cleaning up

#### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

: Strong bases. Strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight.

# Bio Sol Concentrate

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 59 / Monday, March 26, 2012 / Rules and Regulations

7.3. Specific end use(s)  
No additional information available

### SECTION 8: Exposure controls/personal protection

8.1. Control parameter's  
No additional information available

8.2. Exposure controls  
Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Wear appropriate mask.  
Other Information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

9.1. Information on basic, physical and chemical properties

Physical state : Liquid  
Colour : Colourless.  
Odour : Characteristic odour.  
Odour threshold : No data available  
pH :  $\geq 7.5$   
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point :  $\leq 0^{\circ}\text{C}$   
Boiling point :  $\geq 100^{\circ}\text{C}$   
Flash point : None  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at  $20^{\circ}\text{C}$  : No data available  
Relative density : No data available  
Density :  $\geq 1\text{ g/ml}$   
Solubility : Soluble in water.  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available  
9.2. Other information :  $\leq 25\text{ g/l}$   
VOC content

### SECTION 10: Stability and reactivity

10.1. Reactivity  
No additional information available

10.2. Chemical stability  
Not established.

10.3. Possibility of hazardous reactions  
Not established.

10.4. Conditions to avoid  
Direct sunlight. Extremely high or low temperatures.

03/17/2014

EN (English)

# Bio Sol Concentrate

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 59 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials  
Strong acids. Strong bases.

10.6. Hazardous decomposition products  
fume, Carbon monoxide, Carbon dioxide.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Harmful if swallowed.

Mixed Quaternary Ammonium Chlorides

LD50 oral rat 50 mg/kg

Skin corrosion/irritation

: Not classified

Serious eye damage/irritation

pH:  $\geq 7.5$

Respiratory or skin sensitisation

: Not classified

Germ cell mutagenicity

pH:  $\geq 7.5$

Carcinogenicity

: Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard

: Not classified

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

### SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Bio Sol Concentrate

Persistence and degradability

: Not established.

12.3. Bioaccumulative potential

Bio Sol Concentrate

Bioaccumulative potential

: Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

: Avoid release to the environment.

Other information

### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Ecology - waste materials

: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

Bio Sol Concentrate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Additional information: ; No supplementary information available.  
Other information

ADR  
Transport document description  
Transport by sea  
No additional information available  
Air transport  
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations  
Mixed Quaternary Ammonium Chlorides  
Listed on the United States TSCA (Toxic Substances Control Act) Inventory  
15.2. International regulations  
CANADA  
No additional information available

EU Regulations  
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC  
Not classified

15.2.2. National regulations  
No additional information available

15.3. US state regulations  
No additional information available

SECTION 16: Other information

Other information ; None.

Full text of H-phrases: see section 16:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. Not classified	Flammable liquids Not classified
Met. Corr. 1	Corrosive to metals, Category 1
Met. Corr. Not classified	Corrosive to metals Not classified
H226	Flammable liquid and vapour
H290	May be corrosive to metals
H300	Fatal if swallowed
H302	Harmful if swallowed



# Bio Sol Concentrate

## Safety Data Sheet

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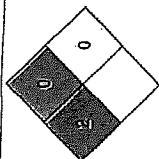
### NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

: 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

: None



### NFPA fire hazard

### NFPA reactivity

### NFPA specific hazard

### HMIS III Rating

### Health

### Flammability

### Physical

: 2 Moderate Hazard - Temporary or minor injury may occur

: 0 Minimal Hazard

: 0 Minimal Hazard

### SDS US (GHS HazCom 2012)

*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.*

# Super Red Plus

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 59 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier : Mixture

Product form : Super Red Plus

Product name : 20031

Product code : 20031

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

1.3. Details of the supplier of the safety data sheet:

Davidson Distributing

3841 First Ave. South

Seattle, WA 98134

T 1-206-285-1766 - F 1-206-285-1799

info@davidsondist.com

1.4. Emergency telephone number:

Emergency number : 1-800-424-9300

ChemTrec

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
dioctyl metasilicate	(CAS No) 6834-92-0	1 - 10	Skin Corr. 1A, H314

### SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects: both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

# Super Red Plus

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Firefighting instructions

Protection during firefighting

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures

6.1.2 For emergency responders

Protective equipment

Emergency procedures

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

7.3 Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available

8.2 Exposure controls

Personal protective equipment

Hand protection

Eye protection

Respiratory protection

Other information

Avoid all unnecessary exposure.

Wear protective gloves.

Chemical goggles or safety glasses.

Wear appropriate mask.

Do not eat, drink or smoke during use.

# Super Red Plus

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 28, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: red.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: >= 12
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: <= 0 °C
Boiling point	: >= 100 °C
Flash point	: None
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: >= 1,142 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
8.2 Other information	
VOC content	: <= 10 g/l

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No additional information available

#### 10.2 Chemical stability

Not established.

#### 10.3 Possibility of hazardous reactions

Not established.

#### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5 Incompatible materials

Strong acids. Strong bases.

#### 10.6 Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity : Not classified

disodium metasilicate (6534-92-0)

LD50 dermal rat > 5000 mg/kg bodyweight (Rat)

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# Super Red Plus

## Safety Data Sheet

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Skin corrosion/irritation

: Not classified.

Serious eye damage/irritation

pH: >= 12

: Not classified

Respiratory or skin sensitisation

pH: >= 12

: Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard

: Not classified

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

disodium metasilicate (6834-92-0)	210 mg/l (96 h; Brachydanio rerio)
LC50 fishes 1	
EC50 Daphnia 1	215 mg/l (96 h; Daphnia magna; Static system)
LC50 fish 2	2320 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 2	632 mg/l (96 h; Lymnaea sp.; Static system)
Threshold limit algae 1	207 mg/l (72 h; Scenedesmus subspicatus; GLP)

#### 12.2. Persistence and degradability

##### Super Red Plus

Persistence and degradability

: Not established.

disodium metasilicate (6834-92-0)

Persistence and degradability

: Biodegradability, not applicable. No (test) data on mobility of the substance available.

Biochemical oxygen demand (BOD)

: Not applicable

Chemical oxygen demand (COD)

: Not applicable

ThOD

: Not applicable

BOD (% of ThOD)

: Not applicable

#### 12.3. Bioaccumulative potential

##### Super Red Plus

Bioaccumulative potential

: Not established.

disodium metasilicate (6834-92-0)

Bioaccumulative potential

: Bioaccumulation, not applicable.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information

: Avoid release to the environment

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

# Super Red Plus

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 14: Transport information

In accordance with DOT

Transport document description

UN-No.(DOT)

DOT NA no.

DOT Proper Shipping Name

Department of Transportation (DOT) Hazard  
Classes

Hazard labels (DOT)

: UN1760 Corrosive liquids, n.o.s. (Contains Potassium Hydroxide), 8, II  
: 1760  
: UN1760  
: Corrosive liquids, n.o.s.  
Contains Potassium Hydroxide  
: 8 - Class 8 - Corrosive material 49 CFR 173.136  
: 8 - Corrosive



DOT Symbols

Packing group (DOT)

DOT Special Provisions (49 CFR 172.102)

: G - Identifies PSN requiring a technical name  
: II - Medium Danger  
: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.  
B2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1); Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T11 - 6 178.274(d)(2) Normal..... 178.275(o)(3)  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (Image) Where: t is the maximum mean bulk temperature during transport, t is the temperature in degrees Celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (t<sub>f</sub>) and the maximum mean bulk temperature during transportation (t) both in degrees Celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (Image) Where: d15 and d60 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 60 C (122 F), respectively.  
TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Storage Location

: 154  
: 202  
: 242  
: 1 L  
: 30 L  
: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  
: 40 - Stow "clear of living quarters"  
: Less than 32 ounces ORMD, greater than 32 ounces UN1760.

DOT Vessel Storage Other

Additional information

Other information

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

03/17/2014

EN (English)

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# Super Red Plus

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 15: Regulatory Information

#### 15.1: US Federal Regulations

disodium metasilicate (6834-92-0)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

#### 15.2: International Regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC  
Not classified

15.2.2. National regulations

No additional information available

#### 15.3: US State Regulations

No additional information available

### SECTION 16: Other Information

Other information

: None.

Full text of H-phrases: see section 16:

Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. Not classified	Skin corrosion/irritation Not classified
H314	Causes severe skin burns and eye damage

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard

: None

HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 0 Minimal Hazard

Physical

: 0 Minimal Hazard

Personal Protection

: B

SDS US (GHS HazCom 2012)

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

Avocet Environmental Testing  
 1500 North State Street, Suite 200  
 Bellingham, WA 98225-4551  
 (360) 734-9033



**Client**  
 Boundary Fish Company  
**Contact Name**  
 Arnold Yuki

**Chain of Custody**  
 9354

**Date Received**  
 10/20/16  
**Date Reported**  
 10/28/16

**Matrix**  
 Wastewater

Sample Identification	Log Number	Date Sampled	Test Performed	Sample Result	Units	PQL Analyzed	Analyst
Hydroscreen	05767424	10/18/16	BOD	260	mg/L	90	10/21/16 CP
Hydroscreen	05767428	10/19/16	TSS	510	mg/L	67	10/26/16 CP
Hydroscreen 2x	05767427	10/20/16	Fecal Coliform MPN	23	MPN/100mL	--	10/20/16 JC
	05767425	10/20/16	Fecal Coliform MPN	30	MPN/100mL	--	10/20/16 JC
Grease & Oil Hydroscreen	05767426	10/20/16	Oil & Grease	15	mg/L	5.0	10/27/16 CP

**QUALITY CONTROL DATA**

Test Performed	QC Known Recovery	Recovery Limits	Duplicate Difference
BOD	105%	85-115%	4%
TSS	98%	94-100%	1%
Oil & Grease	106%	78-114%	N/A

--: No Existing Value  
 BOD: Biochemical Oxygen Demand  
 MPN: Most Probable Number  
 N/A: Not Applicable  
 PQL: Practical Quantitation Limit  
 TSS: Total Suspended Solids

Laboratory Supervisor