From: Peterson, Randy <Randy.Peterson@waupacafoundry.com>
Sent: Monday, August 23, 2021 8:32 AM
To: Reif, Maizie L - DNR
Cc: Esch, Bryant K.
Subject: FW: Wisconsin DNR Spill Responsible Party Notification for SERTS ID 20210726NE38-1
Attachments: DNR Follow Up Letter.pdf

Categories: SPILLS

Good morning Maizie,

Attached is the follow up documentation requested below.

RANDY PETERSON
ENVIRONMENTAL ENGINEER
WAUPACA FOUNDRY, INC.
805 OGDEN STREET
MARINETTE, WI 54143
715-735-4970

From: Esch, Bryant K. <Bryant.Esch@waupacafoundry.com>
Sent: Monday, July 26, 2021 10:54 AM
To: Peterson, Randy <Randy.Peterson@waupacafoundry.com>
Subject: FW: Wisconsin DNR Spill Responsible Party Notification for SERTS ID 20210726NE38-1

From: Reif, Maizie L - DNR <Maizie.Reif@wisconsin.gov>
Sent: Monday, July 26, 2021 10:44 AM
To: Esch, Bryant K. <Bryant.Esch@waupacafoundry.com>
Cc: Reif, Maizie L - DNR <Maizie.Reif@wisconsin.gov>
Subject: Wisconsin DNR Spill Responsible Party Notification for SERTS ID 20210726NE38-1

Bryant,

Per our conversation, please note that a documentation report will be needed for the spill referenced above. The report should be submitted to me within 45 days of the incident. The report should include the name and address of the responsible party and information (i.e., what happened, where it happened, how it was fixed, what remedial activities were performed, photo documentation, disposal documentation, etc.) to document spill response activities that occurred.

Please make sure that the report includes **global positioning system (GPS) coordinates** or a **map** that presents an accurate location of the spill. If you need more information related to the spill cleanup documentation report, please do not hesitate to contact me.

RR-5538 Wisconsin DNR Spill Electronic Reporting and Tracking System (SERTS) Responsible Party Notification

This notification contains information for the Responsible Party of the spill referenced below. Included is important legal information and links to spill response resources.

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

July 26, 2021

Spill Occurred: 2021-07-26 07:15
Spill Reported: 2021-07-26 09:20
Substance(s): Hydraulic Oil
SERTS ID: 20210726NE38-1

Spill Location:
805 Ogden St
City of Marinette
Marinette County

Responsible Party:
Waupaca Foundry Inc

Notice to Responsible Party

The person identified as the "Responsible Party" pursuant to Wis. Admin. Code § NR 700.03(51) [docs.legis.wisconsin.gov] is obligated to take the necessary response actions to address the hazardous substance discharge or environmental pollution under Wis. Stat. ch. 292.

Obligations

Your legal responsibilities are defined in Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700-754. In particular, the hazardous substances spill law [docs.legis.wisconsin.gov] states:

> RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions

necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wis. Admin. Code chs. NR 700 - 754 [docs.legis.wisconsin.gov] establish requirements for actions to be taken by responsible parties to restore the environmental to the extent practicable; protect public health, safety, welfare and the environment; and establishes documentation requirements associated with these response actions, where a hazardous substance discharge or environmental pollution has occurred. Wis. Admin.Code ch. NR 708 [docs.legis.wisconsin.gov] contains requirements for immediate actions following a hazardous substance discharge.

Steps to Take

Wis. Admin. Code § NR 708.05 [docs.legis.wisconsin.gov] requires responsible parties to take immediate action to halt a hazardous substance discharge or environmental pollution and minimize the harmful effects of the discharge or environmental pollution to the air, lands and waters of the state, unless otherwise directed by the DNR.

Below are initial actions that should be taken to address a hazardous substance discharge or environmental pollution:

Obtain the services of an environmental response contractor and/or an environmental consultant to help ensure that proper immediate actions are taken and documented. Information about selecting Environmental Consultants [dnr.wi.gov] and Spill Response Contractors [dnr.wi.gov] is available at dnr.wi.gov [dnr.wi.gov] search for environmental consultants and spills.

Review, along with your contractor or consultant, Wis. Admin. Code § 708.05 [docs.legis.wisconsin.gov], which describes spill response actions for both emergency and non-emergency immediate actions.

Wis. Admin. Code § NR 708.05(6) [docs.legis.wisconsin.gov] requires the submittal of written documentation to the DNR of immediate actions taken and the outcome of those actions, within 45 days after the hazardous substance discharge notification to the DNR.

Comply with Wis. Admin. Code § NR 708.09 [docs.legis.wisconsin.gov], which specifies the requirements for the preparation and submittal of a final report to the DNR documenting the actions taken to respond to the hazardous substance discharge and environmental pollution. Reports may be submitted to the appropriate DNR regional spill coordinator, listed below

Review the remainder of Wis. Admin. Code § NR 708 [docs.legis.wisconsin.gov] to ensure that all immediate response action requirements have been complied with.

DNR Determination

The DNR will provide a cursory review of the Wis. Admin. Code ch. NR 708 reports, if submitted without a review fee. If no further action is necessary, the DNR will note that in the Bureau for Remediation and Redevelopment (BRRTS) database. If you want a written response from the DNR related to a No Further Action decision, or any other determination, please fill out and submit DNR Form 4400-237 [dnr.wi.gov] with the appropriate fee.

If, however, groundwater wells are affected by the hazardous substance discharge or environmental pollution, if free product removal is required, if there is evidence that contaminated soil may be in contact with groundwater or residual contamination poses a threat to public health or the environment, the DNR shall require additional action per Wis. Admin. Code § NR708.09(2).

Please contact me if you have any questions regarding this notification or you would like to discuss your specific situation in more detail.

DNR Regional Spill Coordinator:

Maizie Reif
920-360-4291
Maizie.Reif@wisconsin.gov

WAUPACA FOUNDRY, INC.
Plant 4
805 Ogden Street
Marinette, WI 54143
PHONE (715) 735-4999
WEB WaupacaFoundry.com

August 23, 2021

Maizie Reif
WDNR- Green Bay Service Center
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: Documentation Report
SERTS ID: 20210726NE38-1
NRC Case ID: 1311786

Dear Ms. Reif,

Outlined below is follow-up information related to the cause and mitigation of the spill event reported on June 26, 2021.

Name and Address of the Responsible Party

Waupaca Foundry, Inc.
805 Ogden Street
Marinette, WI 54143

Spilled Material

Griflube Bio-Syn AS – A vegetable based, biodegradable hydraulic fluid. A Safety Data Sheet for this product is attached.

At approximately 6:30 AM maintenance personnel noticed a slight sheen on the river immediately adjacent to the outlet of the facility's Outfall 001. Oil was recognized on one side of the weir and some sheen on the other side. The plant's Emergency Response Team (ERT) was notified and deployed oil containment boom and socks into the weir leading to Outfall 001 (photo attached).

The plant's water recirculation system was sped up in order to redirect the water flow back into the plant and thus eliminate the flow to Outfall 001. Any flow to Outfall 001 had been eliminated by approximately 7:20 AM.

As a further precaution, the weir leading to Outfall 001 was pumped out and the pipe leading to the river was plugged with an inflatable pipe plug. This was completed at approximately 8:30 AM.

Simultaneously, maintenance personnel were investigating to determine the source of the oil. It was identified that a heat exchanger on a hydraulic lift was leaking biodegradable hydraulic fluid into the plant's water recirculation system. The heat exchanger was replaced and refilled with 55 gallons of hydraulic fluid, thus the maximum oil leak would have been 55 gallons into the plant's internal water recirculation system.

Safety-Kleen was dispatched to the site, and they skimmed any floating oil out of the weir and the recirculation tank. (Photos attached). Safety-Kleen hauled off a total of 3000 gallons of impacted internal cooling water. Additionally, the City of Marinette was contacted and accepted for treatment the remaining 18,000 gallons of internal recirculation water.

Of the original potential maximum of 55 gallons of oil, the vast majority was recovered via the actions described above. Ultimately, only a small amount (less than 5 gallons) had an opportunity to enter the second half of the weir and potentially to the Menominee River.

Waupaca Foundry conducted an internal review to identify and implement corrective actions designed to prevent a reoccurrence. The malfunctioning heat exchanger was replaced with a new like unit and the facility is currently investigating the feasibility of permanently replacing the unit with an improved design. Additionally, a shut off valve will be installed at Outfall 001 to allow for a simple and effective isolation of the plant water system from the Menominee River. Both actions are scheduled for completion by December 30, 2021.

Please let me know if you have any questions.

Sincerely,

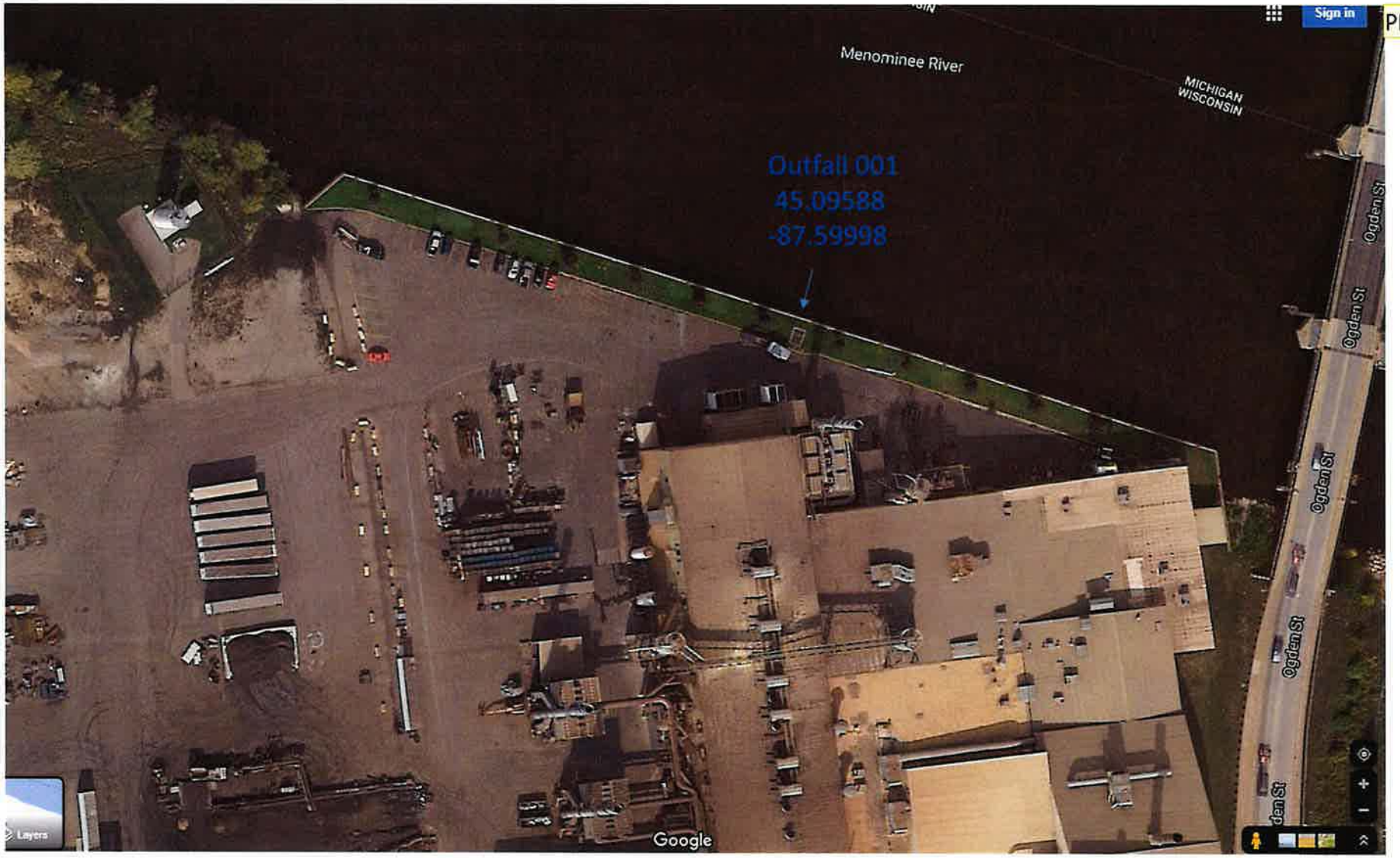
Randy Peterson
Environmental Engineer

Enc.

Photos

Outfall 001

Recirculation Tank


Sign in
PR1
Menominee River
MICHIGAN
WISCONSIN
Outfall 001
45.09588
-87.59998
Ogden St
Ogden St
Ogden St
Ogden St
Layers
Google

Slide 1

PR1 Peterson, Randy, 7/28/2021

GRIFLUBE Bio-Syn

Hill and Griffith Company
Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. This information should be given to all individuals who may come in contact with this material.

N.A. = NOT APPLICABLE **N.E. = NOT ESTABLISHED**

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (s): GRIFLUBE® BIO-SYN AS, BIOSYN EHC
Product Description: Hydraulic Fluid

Manufacture / Supplier: The Hill & Griffith Co.
1085 Summer Street
Cincinnati, Ohio 45204
(513) 921-1075

EMERGENCY
TELEPHONE: (800) 424-9300
Call Chemtrec

Fax: (513) 921-9180

2.0 HAZARD IDENTIFICATION

GHS Classification

Hazard Classification: **Not classified for physical or health hazards under GHS**

SYMBOL: **None**
SIGNAL WORD: **None**

Hazard Statements: **None**

Precautionary Statements

Prevention **Wear protective gloves. Wear protective clothing and eye or face protection. Wash hands thoroughly after handling. Avoid release to the environment. Contaminated work clothing should not be allowed out of the workplace. Avoid release into the environment. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Take precautionary measures against static electricity.**

Response **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.**
IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Wash with
plenty of soap and water. If skin irritation occurs, get medical advice / attention.
IF INHALED: Call POISON CENTER or physician if you fell unwell.

Storage	**Keep container tightly closed in a cool well-ventilated place.**
Disposal	**Dispose of contents and container in accordance with all local, regional, national and international regulations.**

POTENTIAL HEALTH EFFECTS

EYE CONTACT: This product may cause minor eye irritation, but good hygienic practices can minimize these effects.

SKIN CONTACT: Primary route of entry. Frequent or prolonged contact may cause minor irritations to the skin or a skin rash (dermatitis). Good hygienic practices can minimize these effects.

INHALATION: Minor lung irritation could occur, but good hygienic practices can minimize these effects. Exposure to vapors of this product could also cause dizziness due to possible generation of trace amounts of hydrogen sulfide at elevated temperatures.

INGESTION: Material has a low order of acute or chronic oral toxicity.

Normal use of this product does not result in generation of an oil mist. However, if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

CARCINOGENICITY: None of the components present in this material at concentration equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

HMIS CODE: 1 - Health, 1 - Flammability, 0 - Reactivity
NFPA CODE: 1 - Health, 1 - Flammability, 0 - Reactivity

3.0 COMPOSITION / INGREDIENT INFORMATION

Ingredient	CAS Number	Range (% by Wt.)
Vegetable Oil	1280732-24-2 &/or 120962-03-0	95-100

4.0 FIRST-AID MEASURES

INHALATION: Remove victim from further exposure and restore breathing. Seek medical attention.

SKIN CONTACT/ABSORPTION: Wash skin thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

EYE CONTACT: Flush with large amounts of clear flowing water for at least 15 minutes. Remove contact lens, if present while rinsing. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If irritation persists, seek medical attention.

INGESTION: If ingested, DO NOT induce vomiting; give two glasses of water. Guard against aspiration into the lungs. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Not expected to be acutely toxic. If large amounts are swallowed, call a physician.

NOTE TO PHYSICIAN: See above.

5.0 FIRE FIGHTING MEASURES

FLASHPOINT: Greater than 500°F

FLAMMABLE LIMITS LEL: NE UEL: NE

AUTOIGNITION TEMPERATURE: NE

FLAMMABILITY CLASSIFICATION:

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol-resistant foam, sand water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid using water as it may spread fire by dispersing oil. Water spray may be used to flush spills away from fire. Use water spray to cool exposed surfaces. Rags and waste paper containing this material or any oils may heat and burn spontaneously. Rags soaked with any oils present a fire hazard and should always be stored in UL Listed or Factory Mutual approved, covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions, can lead to spontaneous combustion.

FIRE FIGHTING EQUIPMENT: Use full turnout gear and full facepiece with self-contained breathing apparatus when fighting fires near this product.

PRECAUTIONS: Avoid streams of water, which may cause frothing of chemical or may cause material to disperse.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and/or carbon dioxide and potentially other toxic materials such as hydrogen sulfide may be generated. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

HAZARDOUS POLYMERIZATION: Will not occur.

6.0 ACCIDENTAL RELEASE MEASURES

Isolate area and limit access. Remove source of heat, sparks, and flame. Stop source of leak if possible to do so without hazard. Wear appropriate respiratory protection and protective clothing. For small spill, dike area and use solid or other inorganic absorbent, shovel into disposable container. Hose down area and clean with detergent. For large spill, dike area ahead of spill, ventilate closed areas before entry. Pump material into holding container. Clean area with detergent. Prevent material from entering waterways. If material does enter waterways, please contact the appropriate authorities immediately. In the event of an uncontrolled release of this material, the user should determine if this release is reportable under applicable laws and regulations.

7.0 HANDLING AND STORAGE

HANDLING: Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Keep away from heat, sparks, and open flames. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. Close container after each use. Do not pressurize, cut, weld, braze, solder, grind or drill on or near full or empty container. Empty container retains residue (liquid and /or vapor) and may explode in the heat of fire.

STORAGE: Always segregate materials by major hazard class. Product should be handled and stored in accordance with industry accepted practices. Store in properly closed containers that are well labeled. Store in a dry, cool, well-ventilated area. Store away from heat, open flame, strong oxidizers, or other source of ignition. Keep containers closed when not in use.

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INHALATION PROTECTION: Use NIOSH approved respirator for organic vapor for oil mists if exposure may be above the TLV. Personal protective equipment is generally not needed.

EYE PROTECTION: Use safety glasses with side shields or goggles when transferring material to prevent material from splashing into the eye.

SKIN PROTECTION: Neoprene, Nitrile, or PVA gloves to prevent skin contact. Material is not considered a primary skin irritant.

ENGINEERING CONTROLS: Local exhaust at point of generation. Local or general exhaust required when using material at elevated temperatures, which accelerates generation of vapors. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling.

EXPOSURE GUIDELINES:

Ingredient	CAS Number	Exposure Limits
Vegetable Oil	1280732-24-2 & / or 120962-03-0	5 mg/m^3 (OSHA PEL TWA) for oil mist 15 mg/m^3 (OSHA PEL TWA) total dust
Performance Additive Blend*	Mixture	10 mg/m^3 (ACGIH PEL TWA)

***a proprietary blend which contains no components, at their current concentrations, that are GHS hazards.**

9.0 CHEMICAL AND PHYSICAL INFORMATION

Appearance and Odor:	**Pale yellow, oily liquid**
Odor:	**Vegetable odor.**
Odor threshold:	**Not determined**
pH:	**N/A**
Melting/freezing Point(°F):	**Not determined**
Boiling Range (°F):	**> 500°F**
Flash point, COC:	**> 500°F**
Water solubility:	**Insoluble**
Evaporation Rate:	**Not determined**
Flammability:	**Not Determined**
Explosion limit lower:	**Not determined**
Explosion limit upper:	**Not determined**
Vapor pressure:	**Not determined**
Vapor density:	**>1 (air=1)**
Relative density (water=1):	**0.920-0.925**
Partition Coefficient, n-octanol/water:	**Not determined**
Decomposition Temperature:	**Not determined**
Viscosity:	**SUS @ 100°F 230**
Density:	**7.59lbs/gallon**
Specific Gravity:	**.91**

10.0 STABILITY AND REACTIVITY

Reactivity: Nonreactive under normal conditions.

STABILITY: Stable under normal temperature and pressure. Spontaneous combustion can occur. See Unusual Fire and Explosion Procedures in Section 5.0.

CONDITIONS TO AVOID: High surface area exposure to oxygen can result in polymerization and release of heat. Incompatible materials.

MATERIALS TO AVOID: Strong oxidizers. Acids, Reducing agents, Nitric acid

HAZARDOUS DECOMPOSITION: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Thermal decomposition may produce hydrogen sulfide at elevated temperatures as well as oxides of nitrogen, phosphorous, and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

11.0 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA

EYE IRRITATION: May cause eye or skin irritation/dryness; in high concentrations, vapors may be irritating to the respiratory system.

SKIN IRRITATION: Causes skin irritation. Prolonged or repeated skin contact may cause drying, cracking or irritation.

DERMAL LD50: NE

ORAL LD50: NE

INHALATION LC50: NE

12.0 ECOLOGICAL INFORMATION

Environmental Fate: Not established

Environmental Toxicity:

Freshwater fish Toxicity: LC50 1-10 mg/l based on component data

Freshwater Invertebrates Toxicity: EC50 <1 mg/l based on component data. Chronic effects expected at 10-100 mg/l based on component data.

Algal Inhibition: EC50 1-10 mg/kg based on component data

Biodegradation: This material is readily biodegradable

Bioaccumulation: < 0.5% of the components bioconcentrate in aquatic organisms.

Mobility in soil: Not determined.

13.0 DISPOSAL INFORMATION

Waste generated during application, demolition, breakage, or spillage may be hazardous waste as defined by RCRA (40 CFR Part 261). Place waste and spillage in closed containers. Dispose of in approved landfill in accordance with federal, state, and local regulations. Do not pollute or allow material to enter waterways. Conserve resources

14.0 TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING NAME: N/A

HAZARD CLASS: None

IDENTIFICATION NUMBER: None

LABEL(S) REQUIRED: None

INTERNATIONAL INFORMATION: None

15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102A / 103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4): (All ingredients listed on inventory or exempted.)

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 344): Not Regulated

SARA TITLE III SECTION 311 / 312 HAZARDOUS CATEGORIZATION (40 CFR 370):

Hazard Categories - None

SARA TITLE III SECTION 313 (40 CFR PART 372): None Listed

U.S. INVENTORY (TSCA): All ingredients listed on inventory or exempted.

OSHA HAZARD COMMUNICATION STANDARD: Under normal conditions this material is not known to be hazardous.

CALIFORNIA Prop 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) This product does not contain chemical(s) know to the State of California to cause cancer or birth defects.

16.0 OTHER INFORMATION

No additional information known.

This Safety Data Sheet conforms to the requirements of 29 CFR 1910.1200. As of the date of preparation of this document, the forgoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

Date Prepared: 05/20/2020 **Supersedes: 07/08/2015** **Approval Date 05/22/2020**

Prepared by: Donna Nijak **Title: Plant Manager**

PRINTED IN

Technical Data Sheet

GRIFLUBE® BIO-SYN AS

In response to an increased awareness and desire for environmentally compatible lubricants, Hill and Griffith developed the **GRIFLUBE® BIO-SYN** as a high performance biodegradable hydraulic fluid, offering superior lubrication capacity. This advanced product technology not only conforms to the highest standards for low toxicity and biodegradability; but was specifically designed for the casting industry, where the reliability of hydraulic systems and the potential for combustion are typically of issue.

GRIFLUBE® BIO-SYN will provide exceptional lubrication and extended oxidation stability in all types of foundry equipment from Ajax, Brown Boveri / ABP, and Inductotherm melt furnaces; to Disa, Herman, Hunter, Osborn, Sinto, Spo, and Wagner molding systems; to Lamberton, Clansman, EMI, Action, and Andromat manipulators. ASTM D2882 testing registers less than 4 mg total cam ring/vane weight loss.

GRIFLUBE® BIO-SYN was researched and designed as the proactive alternative to conventional vegetable oils, traditional polyol esters, and PAG type fire resistant fluids. It is fully compatible with all these types of chemistries, inclusive of Houghton's Cosmolubric, Quaker's Quintolubric, Shell Irus, and ACT's Ecosafe.

GRIFLUBE® BIO-SYN will readily biodegrade as defined by OECD 301C and CEC method L-33-T-82, easily exceeding 60% biological conversion of CH3 - CH2 molecular groups to CO2 within 7 days. It will also pass the existing standards for safe aquatic toxicity, established at a minimum LD50 of 1000ppm, exceeding a minimum LD50 level of 2000ppm concentration over a period of 96 hours.

GRIFLUBE® BIO-SYN is inherently fire resistant and will not propagate a flame but will self-extinguish once the source of ignition has been eliminated. It has a Flash Point in excess of 550° F and a Fire Point in excess of 650° F. **GRIFLUBE® BIO-SYN** is certified by Factory Mutual Global, in accordance with their latest Spray Flammability Parameter standards.

GRIFLUBE® BIO-SYN has a minimum viscosity index of 215 which allows for maximum stability of the viscosity over an extreme range of temperatures, with a minimum pour point down to 0° F. Bio-Syn will not shear down or selectively deplete under high cycling conditions or varnish at elevated temperatures.

GRIFLUBE® BIO-SYN is compatible with most commonly used seals and hoses, including Viton, Teflon, Silicone, Polyurethane, and Buna N.

GRIFLUBE® BIO-SYN meets the stringent criteria as dictated by the USDA sponsored Bio Preferred Labeling Program and is on their approval ledger at www.biopreferred.gov

1085 Summer Street, Cincinnati, Ohio 45204
800-543-0425 (P)513-921-1075 (F)513-921-9180
www.hillandgriffith.com orders@hillandgriffith.com

GRIFLUBE® BIO-SYN AS

TYPICAL PHYSICAL PROPERTIES:

Appearance	Translucent amber fluid	
Specific Gravity	0.92	
Viscosity Index, DIN 51564	> 215	
ISO Viscosity Grade	46	
Viscosity, SUS/cSt @ 100ºF / 38ºC	214 SUS / 46cSt	
Viscosity, SUS/cSt @ 212ºF / 100º	C60 SUS / 10cSt	
Stable Pour Point, D97	< 0° F	
Total Acid Number	< 1.5	
Flash Point, C.O.C., D92	> 550°F	
Fire Point, C.O.C., D92	> 650°F	
Pump Wear Vickers 104C Vane (ASTM D2882) < 4 mg total wear		
Four Ball Wear (ASTM D-2266)	0.32 mm	
Four Square Gear Test (FZG)	Pass, all 12 stages	
Corrosion Test, D665A	Pass	
Copper Strip, D130	1a	
Non-Toxic, OECD 203	Pass	
Elastomer Compatibility:	Static	Dynamic
High Nitrile Rubber (Buna N)	Compatible	Compatible
Fluroelastomer (Viton/FKM)	Excellent	Excellent
Perfluoroelastomer (Kalrez/FFKM)	Excellent	Excellent
Polyurethane	Compatible	Compatible
Nylon	Compatible	Compatible
Teflon (PTFE)	Compatible	Compatible
Flurosilicone (FVMQ)	Compatible	Compatible

Ideal Proactive Preventive Maintenance Recommendations to ensure the optimum long-term integrity of the fluid, and subsequent long-term efficiency of the hydraulic components, endeavor to achieve the following standards:

*Maintain an ISO fluid cleanliness level of 16/15/11 or better
*Maintain moisture control of less than 300 ppm
*Maintain operating fluid temperatures of less than 130º F.

PACKAGING:
Bulk Tank
Tote
Drums
Pails

1085 Summer Street, Cincinnati, Ohio 45204
800-543-0425 (P)513-921-1075 (F)513-921-9180
www.hillandgriffith.com orders@hillandgriffith.com

Disposal Records

42 Longwater Drive
Norwell, MA 02061-9149
CUSTOMER NO.

800-669-5740
www.safety-kleen.com

DUNS NO. 05-397-6551 FED. ID NO. 396090019

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER

CUSTOMER NO.: WA 2 3 3 4 2

GENERATOR: Gauffaco Foundry, 505 Ogden St, Manhattan, KS

BILL TO

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS

CUSTOMER SEGMENT	CHAIN	OUTER COUNTY		

LOCATION	TAX EXEMPTION NUMBER

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #			SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
7.21.21	052582							

DEPT	SERVICE/ PRODUCT	PROFILE NUMBER	UNIT PRICE	QUANTITY	CHARGE	SALES TAX	TOTAL CHARGE	CHLORINE TEST RESULTS: HALOGEN PASS	HALOGEN FAIL	CLOR-D-TECT RESULTS (PPM)	CLOR-D-TECT TESTERS INITIALS	SK DOT NUMBER	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS) (INITIAL)	CHANGE SCH. DATE (YY WW)	PROMO NO.	RELEASE NO.
	Used Tool		N/C	3000	N/C		N/C	☐	☐									
	Used Tool		N/C	3000	N/C		N/C	☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									

TOTAL-SERVICE/PRODUCTS | 3000 | TANK CAPACITY

GENERATOR STATUS: CHECK ONLY ONE BOX BELOW

GENERATOR: HAZARDOUS WASTE CLASSIFICATION *	VEHICLE FLUIDS ONLY	OTHER NON-VEHICLE FLUIDS
CESQG	☐ 1	☐ 3
SQG/LQG	☐ 2	☐ 4

1 NO PROFILE REQUIRED, NO HALOGEN TEST
2 NO PROFILE REQUIRED, HALOGEN TEST AT PICK-UP
3 PROFILE REQUIRED, NO HALOGEN TEST
4 PROFILE REQUIRED, HALOGEN TEST AT PICK-UP
* REFER TO REVERSE SIDE FOR DEFINITIONS

MANIFEST NO.	USEPA TRANSPORTER ID NO.
GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.

TRANSPORTER DATE 7 / 21 / 21
PRINT NAME: Sutton Hale
X SIGNATURE

FACILITY DATE / /
PRINT NAME
X SIGNATURE

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)	12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
Non Regulated Trash	1	TT	3000	G	7081720

INTERMEDIATE FACILITY NAME AND ADDRESS

USA EPA ID NO. CAD981487297
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐ CHECK NUMBER	TOTAL RECEIVED	APPLY PAYMENT TO: ☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →

CREDIT CARD NO. | AMEX VISA MC | EXP. DATE

CUSTOMER REFERENCE

MANIFEST CODE	SEQ #

IN THE EVENT OF AN EMERGENCY CALL

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION.

Customer certifies that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation.

ADDITIONAL TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT ARE INCORPORATED HEREWITH MADE A PART HEREOF.

Print Name
X GENERATOR/SHIPPER DESIGNATED REPRESENTATIVE SIGNATURE

TOTAL DUE 3000

DO NOT WRITE IN THE AREA BELOW

OIL RECOVERY SERVICE/ SALES ACKNOWLEDGMENT

PART NO. 1353/1983 (04/20)

Permit Application for Emergency Discharge to City of Marinette Sanitary Sewer System

Application Issued: 7/26/2021

Application is hereby made by Wausau Foundry, INC
(Firm Name)

Mailing Address 405 Ogden Street Marinette WI 54143
(Street) (City) (State) (Zip Code)

_____ of the property at:
(Owner, tenant, etc.)

_____
(Street) (City) (State) (Zip Code)

As directed by City of Marinette
(Location of Point of Wastewater Discharge to Sanitary Sewer System)

Scope of Project: Discharge of Vegetable based oil in water

Chemical Usage/ Storage: CRYSTAL BIO-SYN

Spill Containment: (Y) N / NA

Access to Stormwater Drains: Y / (N) / NA

Wastewater Producing Operations: spill in hydraulic cooler to water system

Known Constituents of Wastewater (Attach Analytical Results or SDS):
Vegetable oil 95-100%

Volume of Discharge: Approx 25,000 gallons Wastewater Flow Rate (GPM):

Time of Discharge: _____ AM to _____ PM Days/Week: M T W Th F S Su

Dates of Work: 7/26 to 7/27/21

Individual responsible for wastewater discharge
Paul J. Peterson Environmental Engineer 715-735-4970
(Print Name) (Position) (Phone Number)

I affirm that all included information is true and correct.

Paul J. Peterson 7/26/21
(Signature of Applicant) (Date)

* All approved emergency discharge shall be flow monitored and a billing fee of $6.69/1000 gallons shall apply to all discharge intruduced into the City of Marinette Sanitary Sewer System

To be filled out by Control Authority

Approval Granted: (Y) / N

Approved by: [signature] Position: Pretreatment Coordinator

Date: 7-26-21

- Loads of 3,000 gallons hauled by MJB contractor Vac Truck to designated City of Marinette WWTP Manhole at treatment facility.

GA