



# Safety Data Sheet

## Section 1: Chemical Product and Company Identification

**General Product Name:** B2 biOil™ bio-based high oleic AW-68 Hydraulic Fluid  
**Synonyms -** Proprietary  
**Product Description -** Biodegradable/Bio-based hydraulic fluids

**Relevant identified uses of mixture and uses advised against:** Intended for use as industrial fluids. Research only

**Details of the supplier of the safety data sheet:** Well Tech Fluids, Celebration, Florida USA 34747  
(407) 407-721-0843 – USA – [info@welltechfluids.com](mailto:info@welltechfluids.com)

**Technical Assistance:** (321) 214-4039, Fax (815) 331-0931

**Issue Date:** January 8, 2021

## Section 2: Hazards Identification

**US Signal Word:** None  
**US Hazard Overview:** Not classified as a hazard  
**Principal Hazards:** **This material has no known health hazards**

This material is not considered hazardous by the OSHA Hazard communication Standard 29 CFR 1910.1200.  
**See Section 11 for complete health hazard information.**

## Section 3: Composition/Information on Ingredients

INGREDIENTS	CAS #	WT %
High Oleic Vegetable Oils	Proprietary	90 - 95
Copolymer	Proprietary	1.0 - 5
Triphosphate Derivative	Proprietary	0.5 - 5
Amine Derivatives	Mixture	0.1 - 2

This mixture contains no substance considered to be persistent, bioaccumulation or toxic.

## Section 4: First Aid Measures

**Eyes:** Flush with water for at least 30 minutes. Get medical attention if eye irritation develops or persists.

**Skin:** Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Oral:** DO NOT INDUCE VOMITING. Get immediate medical attention.

**Additional Information:** Note to physician: Treat symptomatically.



## Safety Data Sheet

### Section 5: Fire Fighting Measures

<b>Flash Point:</b>	>150 °C, >302 °F (ASTM D 92)
<b>Extinguishing Media:</b>	CO <sub>2</sub> , dry chemical, water spray (fog) or foam. Water stream may splash the burning liquid and spread fire.
<b>Firefighting Procedures:</b>	Recommend wearing self-contained breathing apparatus. Use water spray to cool drums exposed to fire.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Not determined

### Section 6: Accidental Release Measures

<b>Spill Procedures:</b>	Recommend Personal Protective Equipment be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Remove sources of ignition, contain spill to smallest area possible. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Grease nature will result in a slippery surface.
--------------------------	---

### Section 7: Handling and Storage

<b>Max. Handling Temperature:</b>	75 °C, 167 °F
<b>Handling Procedures:</b>	Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
<b>Max. Storage Temperature:</b>	45 °C, 113 °F
<b>Storage Procedures:</b>	No special storage precautions required

### Section 8: Exposure Controls/Personal Protection

<b>Exposure Limits:</b>	None established
<b>Engineering Controls:</b>	Use with adequate ventilation
<b>Gloves Procedures:</b>	Use nitrile gloves
<b>Eye Protection:</b>	Safety Glasses
<b>Respiratory Protection:</b>	Under normal use conditions, respirator is not usually required.
<b>Clothing Recommendation:</b>	Under normal use conditions, no special clothing required. Launder contaminated clothing before reuse.

### Section 9: Physical and Chemical Properties

<b>Boiling Point</b>	>200 °C, >392 °F
<b>Upper Flammable Limit</b>	Not determined
<b>Lower Flammable Limit</b>	Not determined
<b>Autoignition Point</b>	Not determined
<b>Explosion Data</b>	Material does not have explosive properties
<b>Vapor Pressure</b>	<0.1 mm Hg @ 68 °F (20 °C)
<b>pH</b>	Not determined
<b>Specific Gravity</b>	0.90 – 0.94 (water = 1), 7.86 lb./gallon
<b>Bulk Density</b>	Not determined
<b>Water Solubility</b>	Negligible
<b>Percent Volatile</b>	Unknown



## Safety Data Sheet

<b>Volatile Organic Compound</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Odor</b>	Mild Fatty
<b>Appearance</b>	Light Yellow to Amber Liquid
<b>Viscosity</b>	Not determined
	Not determined
<b>Odor Threshold</b>	Unknown
<b>Boiling Point</b>	Not determined
<b>Pour Point Temperature</b>	Not determined
<b>Melting/Freezing Point</b>	Not determined

### Section 10: Stability and Reactivity

<b>Stability:</b>	The product is stable.
<b>Decomposition Temperature</b>	Not determined
<b>Incompatibility:</b>	Strong oxidants
<b>Polymerization:</b>	Will not occur
<b>Thermal Decomposition:</b>	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
<b>Conditions to Avoid:</b>	Excessive temperatures

### Section 11: Toxicological Information

#### -- ACUTE EXPOSURE --

<b>Eye Irritation:</b>	Not expected to cause eye irritation. Based on data from components or similar materials.
<b>Skin Irritation:</b>	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
<b>Respiratory Irritation:</b>	Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil.
<b>Dermal Toxicity:</b>	The LD50 in rabbits is >2000 mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity:</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Oral Toxicity:</b>	The LD50 in rats is >5000 mg/kg. Based on data from components or similar materials.
<b>Dermal Sensitization:</b>	No Data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization:</b>	No Data available to indicate product or components may be a respiratory sensitizer.



## Safety Data Sheet

### -- CHRONIC EXPOSURE--

<b>Chronic Toxicity:</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards
<b>Carcinogenicity:</b>	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
<b>Mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity:</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity:</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

### -- Additional Information --

<b>Other</b>	No other health hazards known.
--------------	--------------------------------

## Section 12: Ecological Information

### -- ENVIROMENTAL TOXICITY--

<b>Freshwater Fish Toxicity:</b>	The acute LC50 is > 1000 mg/L based on component data.
<b>Freshwater Invertebrates Toxicity:</b>	Not determined
<b>Algal Inhibition:</b>	The acute EC50 is > 1000 mg/L based on similar materials.
<b>Saltwater Fish Toxicity:</b>	Not determined
<b>Saltwater Invertebrates Toxicity:</b>	Not determined
<b>Bacteria Toxicity:</b>	The acute EC50 is > 1000 ppm based on component data.
<b>Miscellaneous toxicity:</b>	Not determined

### -- ENVIROMENTAL FATE--

<b>Biodegradation:</b>	This product is rated Ultimate Biodegradable in which it will biodegrade greater than or equal to 60% in 28 days
<b>Bioaccumulation:</b>	This material displays no potential to bio concentrate.

## Section 13: Disposal Considerations

<b>Waste Disposal:</b>	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.
------------------------	---

## Section 14: Transport Information

<b>ICAO/IATA (US)</b>	Not regulated
<b>ICAO/IATA (International)</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>IMDG EMS Fire</b>	Not applicable
<b>IMDG EMS Spill</b>	Not applicable
<b>IMDG MFAG</b>	Not applicable
<b>IMO Marine Vessel</b>	Do Not Transport – Additional Information Required



# Safety Data Sheet

<b>US Barge</b>	Do Not Transport – Additional Information Required
<b>USCG Compatibility</b>	Not Determined
<b>U.S. DOT Bulk</b>	Not regulated
<b>U.S. DOT Non-Bulk</b>	Not regulated
<b>DOT NAERG</b>	Not applicable
<b>TDG Bulk</b>	Not regulated
<b>TDG Non-Bulk</b>	Not regulated
<b>Mexico</b>	Not regulated
<b>Mexico Non-Bulk</b>	Not regulated
<b>Bulk Quantity</b>	85000 liters, 22457 gal.
<b>Non-Bulk Quantity</b>	207.8 liters, 55 gal.

*Review classification requirements before shipping materials at elevated temperatures.*

## Section 15: Regulatory Information

### -- Global Chemical Inventories --

<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.
<b>OTHER TSCA Reg.</b>	None known
<b>EU</b>	All components are in compliance with the EC Seventh amendment directive 92/32/EEC
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>Korea</b>	All components are in compliance in Korea.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969)
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

### -- Other U.S. Federal Regulations --

<b>SARA Ext. Haz. Subst.</b>	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
<b>SARA Section 313</b>	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

#### SARA 311 Classification

Acute Hazard	No
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

<b>CERCLA Hazardous Substances</b>	None Known
<b>FDA Approval</b>	Not Applicable



# Safety Data Sheet

## -- Product Registrations --

U.S. Fuel Registration	Not applicable
U.S. Dept of Agriculture	Not registered
NSF Nonfood Compounds Registration	Not registered
Finnish Registration	Not registered
Swedish Registration	Not registered
Norwegian Registration	Not registered
Danish Registration	Not registered
Swiss Registration	Not registered
Italian Registration	Not registered
Korean Registration	Not registered
New Zealand Registration	Not registered
TDG Regulated Limit	None Known

## Section 16: Other Information

US NFPA Codes	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>	<b>Special</b>
	1	1	0	None Established

HMIS Codes	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
	1	1	0

**Precautionary Labels**      **“This material has no known health hazards”**

*The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Well Tech Fluids' knowledge; however, WTF makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from use thereof. Well Tech Fluids assumes no responsibility for injury to recipient or to third persons for any damage to any property and recipient assumes all such risks.*