

15-JAN-09  
Valona Bio 2023 S

To Whom It May Concern:

As you requested, attached is a copy of a Material Safety Data Sheet covering (our ref. no. 202198) Valona Bio 2023 S.

Title III of the Superfund Amendments and Reauthorizations Act (SARA) requires chemical suppliers of mixtures and trade name products to provide information to their customers sufficient for them to comply with the requirements of Section 313.

Material Safety Data Sheets (MSDS's) have been updated to include the section 313 information.

Erick Aho  
Chemist

## MATERIAL SAFETY DATA SHEET FOR Valona Bio 2023 S

TOTAL Lubricants USA, Inc.  
5 N. Stiles Street  
Linden NJ 07036

REVISION DATE  
03-JUL-08

DATE ISSUED  
15-JAN-09

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**IDENTIFICATION AND EMERGENCY INFORMATION**

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PRODUCT NAME: Valona Bio 2023 S	PRODUCT #: 202198
CHEMICAL NAME: Refined, bleached and deodorized Canola oil	CAS #'S: 120962-03-0
PRODUCT APPEARANCE AND ODOR: Amber liquid, faint fatty odor	CHEMICAL FAMILY: Mixed triglycerides
SYNONYMS: Lubricating Oil	EMERGENCY TELEPHONE: 1-908-862-9300

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**COMPONENTS AND HAZARD INFORMATION**

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COMPONENTS:	W/W	HAZARD DATA (TLV, LD50, LC50, ETC.):
Canola oil CAS No. 120962-03-0		n/e
Ditertiarydodecyl polysulfide CAS No. 68425-15-0		n/e

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

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**TRANSPORTATION INFORMATION**

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TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

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**EMERGENCY FIRST AID**

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EYE CONTACT: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes.

SKIN: Wash exposed areas of the body with soap and water. Launder clothes.

INHALATION: Remove from area of exposure, seek medical attention if symptoms persist.

INGESTION: Call physician for advice. Do not induce vomiting, possible aspiration hazard.

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**FIRE AND EXPLOSION HAZARD INFORMATION**

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FLASH POINT (MINIMUM): AUTOIGNITION TEMPERATURE:

>260°C (>500°F) Test method: COC N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):

Estimated values: lower N/E upper N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water or foam may cause frothing.

Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

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**HEALTH AND HAZARD INFORMATION**

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EXPOSURE LIMIT FOR TOTAL PRODUCT: Not established.

Inhalation hazard is negligible unless heated to produce vapors or as a mist. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness and nausea.

Eye contact may cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

Prolonged or repeated contact with the skin may cause irritation of the hair follicles and block sebaceous glands, causing rash, acne or dermatitis.

Ingestion may irritate the digestive tract; seek medical attention if symptoms persist or if material is ingested in large quantities.  
Possible aspiration hazard.

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**PHYSICAL DATA**

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The following data are approximate or typical values and should not be used

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**PHYSICAL DATA**

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for precise design purposes.

BOILING RANGE:

Not available

SPECIFIC GRAVITY (25°C/25°C):

(WATER = 1)

< 1.0

PERCENT VOC BY WEIGHT:

0 %

MOLECULAR WEIGHT:

Wide range

EVAPORATION RATE @ 1 ATM. AND 25°C

(77°F) (n-BUTYL ACETATE = 1):

Not available

VAPOR PRESSURE:

< 0.1 mmHg @ 20°C

VAPOR DENSITY (AIR = 1):

> 5

PERCENT HAP BY WEIGHT:

0.0 %

SOLUBILITY IN WATER @ 1 ATM. and 25°C

(77°F):

Nil

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**REACTIVITY**

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This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Combustion produces carbon monoxide and carbon dioxide along with thick smoke.

CONDITIONS TO AVOID:

Open flames, strong oxidizing agents.

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**TOXICITY**

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ORAL (Acute)

N/E

DERMAL (Acute)

N/E

EYE

N/E

INHALATION (Acute)

N/E

CHRONIC, SUBCHRONIC, ETC.

N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

All components known to be contained in this product are on the TSCA inventory or are exempt.

SARA Section 313 Status:

This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

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**SPILL OR LEAK PROCEDURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

**WASTE DISPOSAL METHOD:** (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

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**PROTECTION AND PRECAUTIONS**

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**VENTILATION:** (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

**RESPIRATORY PROTECTION:** (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

**PROTECTIVE GLOVES:**

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION:**

Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT:**

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

**WORK PRACTICES/ENGINEERING CONTROLS:**

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants. Store in containers below 120°F.

**PERSONAL HYGIENE:**

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

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