

# SAFETY DATA SHEET

Issue Date 31-Mar-2014 Revision Date 31-May-2016 Version 2

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name ADVALUBE™ F-1020 SPECIALTY LUBRICANT

Other means of identification

Biogenix Product Code F-1020 SDS Code F-1020 Document F-1020

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address PMC Biogenix, Inc. 1231 Pope Street

Memphis, TN 38108

USA

Emergency telephone number

Company Phone Number PMC Biogenix Customer Service: 1-800-641-2152

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300

Emergency Telephone Chemtrec

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

### **Emergency Overview**

#### Hazard statements

Handle in accordance with good industrial hygiene and safety practice

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance pellets Physical state Solid Odor Slight

### Hazards not otherwise classified (HNOC)

Other Information

Causes mild skin irritation.

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Fatty Acid Ester Lubricant	Proprietary	90-95	*
Fatty alcohols	Proprietary	1-6	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

Eye contact Molten product can cause thermal burns. Rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. (Call a physician if irritation persists).

Skin Contact Molten product can cause thermal burns. In case of burns, immediately cool affected skin

for as long as possible with cold water. Wash off immediately with plenty of water for at

least 15 minutes. (Get medical attention immediately if symptoms occur).

**Inhalation** Remove to fresh air. (Get medical attention immediately if symptoms occur).

Ingestion Molten product can cause thermal burns. Clean mouth with water and drink afterwards

plenty of water. (Get medical attention immediately if symptoms occur).

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

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Hydrocarbons.

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid creating dust. Ensure adequate ventilation, especially in confined areas. Dust can

form an explosive mixture with air.

Environmental precautions

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**Environmental precautions** 

See section 12 for additional ecological information. The product is insoluble and floats on water. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Methods for cleaning up Where possible allow molten material to solidify naturally.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage Conditions** 

Acids, Strong oxidizing agents. Incompatible materials

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Exposure limits are listed below, if they exist.

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Γ	Dust	TWA: 10 mg/m <sup>3</sup> lnhl	TWA: 5 mg/m <sup>3</sup> Resp	-	-
1	DUST	TWA: 3 mg/m <sup>3</sup> Resp	TWA: 15 mg/m <sup>3</sup> Total		
1			29CFR1910.1000		

# **Appropriate engineering controls**

**Engineering Controls** Showers, Eyewash stations, Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Heat resistant gloves are recommended when handling molten materials.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Wash

face, hands and any exposed skin thoroughly after handling. Use personal protective

equipment as required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Solid pellets **Appearance** 

Odor

Color white Odor threshold No information available

Remarks • Method **Property** Values

6.5 Melting point / freezing point 42 - 47 °C / 107 - 116 °F

Boiling point / boiling range

Flash point > 200 °C / > 392 °F No information available **Evaporation rate** No information available

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Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available **Specific Gravity** No information available Water solubility Insoluble in water Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity **Explosive properties** No information available Oxidizing properties No information available

**Other Information** 

Softening point No information available Molecular weight No information available

VOC Content (%)

**Density** 0.54 g/cm<sup>3</sup>

Bulk density No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No known effects under normal use conditions.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous polymerization**

Hazardous polymerization does not occur.

### **Conditions to avoid**

Extremes of temperature and direct sunlight.

# Incompatible materials

Acids, Strong oxidizing agents.

# **Hazardous Decomposition Products**

Carbon oxides, Hydrocarbons.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system. Vapors

may be irritating to eyes, nose, throat, and lungs. No known effect based on information

supplied.

Eye contact Dust contact with the eyes can lead to mechanical irritation. Molten product can cause

thermal burns.

**Skin Contact** Molten product can cause thermal burns.

#### Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Fatty Acid Ester Lubricant	2000 mg/kg (Rat)		
Fatty alcohols	> 10000 mg/kg (Rat)	> 8000 mg/kg (Rabbit)	

# Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization Germ cell mutagenicity**No information available.
No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 15269 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

94.0001 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Fatty alcohols	= 235 mg/l ErC50	> 1000 mg/l LC50	•	= 1666: 48 h Daphnia magna mg/L EC50

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Fatty alcohols	6.65

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Disposal should be in accordance with applicable regional, national

and local laws and regulations.

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# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated. Proper shipping name Not regulated

<u>IMDG</u> Not regulated

# 15. REGULATORY INFORMATION

# All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

# International Inventories

**EINECS/ELINCS** Complies or Exempt

**TSCA** Complies **AICS** Complies **DSL/NDSL** Complies Does not comply **ENCS KECL** Complies Complies **PICCS IECSC** Complies **NZIoC** Complies **TCSI** Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

# SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

# **CWA (Clean Water Act)**

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Fatty Acid Ester Lubricant		X		

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# **CERCLA**

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fatty Acid Ester Lubricant			X

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

### **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 1 Instability 0 Physical and Chemical

Properties -

Health hazards 1 Flammability 1 Physical hazards 0 Personal protection X

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**Revision Note** 

(M)SDS sections updated 3 6 7 11

This material safety data sheet complies with the requirements of 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**