

# **SAFETY DATA SHEET**

Issue Date 06-May-2014 Revision Date 06-May-2014 Version 1

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

**Product identifier** 

Product Name ADVAPAK™ S-1203 LUBRICATING STABILIZER

Other means of identification

SDS Code S-1203
Document S-1203
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Stabilizer. Lubricant.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressPMC Biogenix, Inc.PMC Biogenix, Inc.1231 Pope Street1231 Pope StreetMemphis, TN 38108Memphis, TN 38108

USA 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 Biogenix Environmental Health and Safety Department +1-901-320-5820

## 2. HAZARDS IDENTIFICATION

#### Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

## Label elements

## **Emergency Overview**

## Warning

## Hazard statements

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure



Appearance pellets, solid (waxy) Physical state Solid Odor Sulphurous

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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 advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink 1 or 2 glasses of water. Get medical advice/attention if you feel unwell.

### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

#### Other Information

May be harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

Unknown Acute Toxicity 63.228% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Petroleum wax	Proprietary	>60	*
Metallic soap	Proprietary	20 - 30%	*
Mixed alkylmetallic mercaptoester sulfides	Proprietary	<10	*
Synthetic wax	Proprietary	0 - 10%	*
Organic acid	Proprietary	<5	*
Inorganic Salt	Proprietary	<2	*

<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

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin Contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. Wash off immediately with soap and plenty

of water.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a

physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse

mouth

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization of susceptible persons. For inhalation exposure consider treatment

for hydrogen sulfide (H2S) exposure.

## 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

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide. Hazardous metal fumes and oxides.

Hydrocarbons. Oxides of sulfur.

**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 contact with skin, eyes or clothing. Use personal protective equipment as required.

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

form an explosive mixture with air.

**Environmental precautions** 

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. 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

Use personal protective equipment as required. Take up mechanically, placing in

appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating

dust. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

## **Precautions for safe handling**

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Hydrogen sulfide (H2S), a decomposition by-product of this material, may be present in the headspace of the container. Wash thoroughly after

handling.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Incompatible with oxidizing agents, Acids, Contact with acids may release hydrogen sulfide,

a toxic and flammable gas that may form explosive mixtures in air.

## 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
Metallic soap	TWA: 10 mg/m³ except stearates of toxic metals	-	-	-
Mixed alkylmetallic mercaptoester sulfides	STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*	TWA: 0.1 mg/m³ Sn (vacated) TWA: 0.1 mg/m³ Sn (vacated) S*	-	TWA: 0.07 mg/m³ Sn (12 hour)
Synthetic wax	-	-	-	-
Inorganic Salt	-	3	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust	TWA: 1 mg/m³ STEL: 3 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

#### Appropriate engineering controls

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

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

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

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

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** When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### S-1203: ADVAPAK<sup>TM</sup> S-1203 LUBRICATING STABILIZER

Physical state Solid

Appearance pellets, solid (waxy) Odor Sulphurous

Color white Odor threshold No information available

Setaflash

Property Values Remarks • Method

pH No information available

Melting point/freezing point 42 - 46 °C / 108 - 115 °F

Boiling point / boiling range > 300 - 380 °C / 572 - 716 °F

Flash point > 200 °C / > 392 °F
Evaporation rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure 0.013

Vapor densityNo information availableSpecific GravityNo information availableWater solubilityInsoluble 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 **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
No information available
0.449999988079071
1.0 g/cm3 @ 77 °F
Bulk density
No information available

## 10. STABILITY AND REACTIVITY

## 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

Incompatible with oxidizing agents, Acids, Contact with acids may release hydrogen sulfide, a toxic and flammable gas that may form explosive mixtures in air.

## **Hazardous Decomposition Products**

Carbon dioxide (CO2), Carbon monoxide, Hazardous metal fumes and oxides, Hydrocarbons, Oxides of sulfur.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information Reacts with gastric acid to form organotin chlorides The product has not been tested

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

**Eye contact** Dust contact with the eyes can lead to mechanical irritation.

**Skin Contact** No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Metallic soap	5000 mg/kg (Rat)	5000 mg/kg (Rabbit)	
Mixed alkylmetallic mercaptoester sulfides	300 - 4000 mg/kg bw (Rat)	>=1000 mg/kg bw	>200 mg/L
Synthetic wax	> 2000 mg/kg (Rat)		
Organic acid	> 4600 mg/kg (Rat)	> 5000 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**No information available. **Germ cell mutagenicity**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
No information available
No information available.

**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure.

Target Organ Effects Eyes, Respiratory system, Skin.
Aspiration hazard No information available.

### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 65.928% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 4483 mg/kg ATEmix (dermal) 2661 mg/kg ATEmix (inhalation-dust/mist) 713 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

69.078% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Matallia		100 //	•	. 400
Metallic soap		>100 mg/l		>100 mg/l (Daphnia magna)
Mixed alkylmetallic	= 0.64 mg/L 72 h EC50	> 4.4 mg/L 96 h LC50		= 0.27 mg/L
mercaptoester sulfides	= 0.28 mg/L NOEC	Oncorhynchus mykiss		48 h EC50 D. magna
'	Pseudokirchneriella	, ,		ı
	subcapitata			

## Persistence and degradability

No information available.

## Bioaccumulation

No information available.

Chemical Name Partition coefficient
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#### S-1203: ADVAPAK<sup>TM</sup> S-1203 LUBRICATING STABILIZER

Mixed alkylmetallic mercaptoester sulfides 25.5

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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Not a recommended mode of transport. 450 L Limit Per Package.

IATA Technical Name (mixed alkylmetallic mercaptoester sulfides)

**UN/ID No.** 3077

**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Hazard Class 9

Packing Group III

**Description** (mixed alkylmetallic mercaptoester sulfides)

<u>IMDG</u> Regulated

IMDG Technical Name (mixed alkylmetallic mercaptoester sulfides)

**UN/ID No.** 307

**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Hazard Class 9
Packing Group III

Marine pollutant This material meets the definition of a marine pollutant

**Description** (mixed alkylmetallic mercaptoester sulfides)

## 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/ELINCSDoes not complyTSCACompliesAICSComplies

DSL/NDSL Does not comply ENCS Does not comply KECL Does not comply PICCS Complies

IECSC Does not comply NZIOC Does not comply

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

## **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	Yes
Chronic Health Hazard	Yes
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.

### **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
Γ	Inorganic Salt	X	X	X

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

EPA Pesticide Registration Number Not Applicable

## 16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards  $2^*$  Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

Prepared By PMC Group Issue Date 06-May-2014 Revision Date 06-May-2014

**Revision Note** 

No information available

#### **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**