



SAFETY DATA SHEET

SDS: 9210

Easy Bar® with Almasol®

Issuing Date 06-08-2022

Revision Date 07-22-2024

Revision Number 6.2

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

Product Identifier

Product Name Easy Bar® with Almasol®

Other means of identification

Product Code(s) 9210

UN-No UN3077

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Emergency Overview

Signal Word None

Appearance bronze

Physical state Solid

Response

None.

Eyes

None.

Skin

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None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None.

Storage

None.

Disposal

None.

Hazards not otherwise classified (HNOC)

None

- MAY BE HARMFUL IF SWALLOWED
- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Triphenyl phosphate	115-86-6	60 - 70
graphite	7782-42-5	30 - 40
Copper	7440-50-8	1 - 5

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Consult a physician. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 204 °C - 399.92 °F

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam, Dry chemical

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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 gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

NFPA Health hazards 0 Flammability 1 Stability 0

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Do not touch or walk through spilled material. Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for Cleaning up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Product should be stored below 43C/110°F. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Incompatible products Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate	TWA: 3 mg/m ³	TWA: 3 mg/m ³ (vacated) TWA: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 3 mg/m ³
graphite	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 2.5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³
Copper	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ (vacated) TWA: 0.1 mg/m ³	IDLH: 100 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.
Skin and Body Protection	Long sleeved clothing. Protective gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	bronze
Odor	Hydrocarbon-like
Odor threshold	No information available
Property	Values
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	204 °C / 399.92 °F
Flashpoint Method	PMCC
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Hyphen	-
Viscosity, kinematic	cSt @ 40°C

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10. STABILITY AND REACTIVITY

reactivity	No information available
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to Avoid	Heat, flames and sparks Contact with other chemicals
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyl phosphate 115-86-6	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 200000 mg/m ³ (Rat) 1 h
graphite 7782-42-5	> 10000 mg/kg (Rat)	-	> 2000 mg/m ³ (Rat) 4 h
Copper 7440-50-8	-	-	> 5.11 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Chronic Toxicity Contains a known or suspected reproductive toxin.

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Target organ effects

Blood, Central Vascular System (CVS), Peripheral Nervous System (PNS), Respiratory system, Eyes, Liver, Kidney, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 4715 mg/kg
 ATEmix (dermal) 10011 mg/kg
 ATEmix (inhalation-dust/mist) 50.1 mg/l

12. ECOLOGICAL INFORMATION**Marine Pollutant**

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triphenyl phosphate 115-86-6	EC50 0.6 - 4 mg/L 96 h	LC50 0.28 - 0.5 mg/L Oncorhynchus mykiss 96 h LC50 0.81 - 0.94 mg/L Pimephales promelas 96 h LC50 0.53 - 0.8 mg/L Pimephales promelas 96 h LC50 0.47 - 1.04 mg/L Lepomis macrochirus 96 h LC50= 1.2 mg/L Oryzias latipes 96 h		EC50 0.86 - 1.2 mg/L 48 h
graphite 7782-42-5		LC50> 100 mg/L Danio rerio 96 h		
Copper 7440-50-8	EC50 0.0426 - 0.0535 mg/L 72 h EC50 0.031 - 0.054 mg/L 96 h	LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 1.25 mg/L Lepomis macrochirus 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h		EC50 = 0.03 mg/L 48 h

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Methods**

Dispose of in accordance with local regulations

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Contaminated Packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal

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

Chemical name	California Hazardous Waste Status
Copper 7440-50-8	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Marine Pollutant	Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

ICAO/IATA

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A179, A197, A215
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Triphenyl phosphate, Copp

IMDG

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing Group	III
Special Provisions	274, 335, 966, 967, 969 F-A S-F
Marine Pollutant	M; Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDSL	Not determined
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies

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AICS

Complies

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Copper 7440-50-8	1.0

EPCRA: Emergency Planning and Community Right-to-Know Act

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Right-to-Know 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
Triphenyl phosphate 115-86-6	X	X	X
graphite 7782-42-5	X	X	X
Copper	X	X	X

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7440-50-8			
Silica, quartz 14808-60-7	X	X	X

NFPA **Health hazards** 0 **Flammability** 1 **Stability** 0**16. OTHER INFORMATION**

Prepared By
Issuing Date 06-08-2022
Revision Date 07-22-2024
Reason for revision SDS sections updated.

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



SAFETY DATA SHEET

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Easy Bar® with Almasol®

Issuing Date 06-08-2022

Revision Date 07-22-2024

Revision Number 3.3

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

Product Identifier

Product Name Easy Bar® with Almasol®

Other means of identification

Product Code(s) 9211

UN-No UN3077

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Emergency Overview

Signal Word None

Appearance bronze

Physical state Solid

Response

None.

Eyes

None.

Skin

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None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None.

Storage

None.

Disposal

None.

Hazards not otherwise classified (HNOC)

None

- MAY BE HARMFUL IF SWALLOWED
- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Triphenyl phosphate	115-86-6	60 - 70
graphite	7782-42-5	30 - 40
Copper	7440-50-8	1 - 5

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Consult a physician. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 204 °C - 399.92 °F

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam, Dry chemical

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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 gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

NFPA Health hazards 0 Flammability 1 Stability 0

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Do not touch or walk through spilled material. Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for Cleaning up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Product should be stored below 43C/110°F. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Incompatible products Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate	TWA: 3 mg/m ³	TWA: 3 mg/m ³ (vacated) TWA: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 3 mg/m ³
graphite	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 2.5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³
Copper	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ (vacated) TWA: 0.1 mg/m ³	IDLH: 100 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.

Skin and Body Protection Long sleeved clothing. Protective gloves.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	bronze
Odor	Hydrocarbon-like
Odor threshold	No information available
Property	Values
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	204 °C / 399.92 °F
Flashpoint Method	PMCC
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Hyphen	-
Viscosity, kinematic	cSt @ 40°C

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10. STABILITY AND REACTIVITY

reactivity	No information available
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to Avoid	Heat, flames and sparks Contact with other chemicals
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyl phosphate 115-86-6	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 200000 mg/m ³ (Rat) 1 h
graphite 7782-42-5	> 10000 mg/kg (Rat)	-	> 2000 mg/m ³ (Rat) 4 h
Copper 7440-50-8	-	-	> 5.11 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Chronic Toxicity Contains a known or suspected reproductive toxin.

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Target organ effects

Blood, Central Vascular System (CVS), Peripheral Nervous System (PNS), Respiratory system, Eyes, Liver, Kidney, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 4715 mg/kg
 ATEmix (dermal) 10011 mg/kg
 ATEmix (inhalation-dust/mist) 50.1 mg/l

12. ECOLOGICAL INFORMATION**Marine Pollutant**

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triphenyl phosphate 115-86-6	EC50 0.6 - 4 mg/L 96 h	LC50 0.28 - 0.5 mg/L Oncorhynchus mykiss 96 h LC50 0.81 - 0.94 mg/L Pimephales promelas 96 h LC50 0.53 - 0.8 mg/L Pimephales promelas 96 h LC50 0.47 - 1.04 mg/L Lepomis macrochirus 96 h LC50= 1.2 mg/L Oryzias latipes 96 h		EC50 0.86 - 1.2 mg/L 48 h
graphite 7782-42-5		LC50> 100 mg/L Danio rerio 96 h		
Copper 7440-50-8	EC50 0.0426 - 0.0535 mg/L 72 h EC50 0.031 - 0.054 mg/L 96 h	LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 1.25 mg/L Lepomis macrochirus 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h		EC50 = 0.03 mg/L 48 h

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Methods**

Dispose of in accordance with local regulations

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Contaminated Packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal

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

Chemical name	California Hazardous Waste Status
Copper 7440-50-8	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Marine Pollutant	Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

ICAO/IATA

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A179, A197, A215
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Triphenyl phosphate, Copp

IMDG

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing Group	III
Special Provisions	274, 335, 966, 967, 969 F-A S-F
Marine Pollutant	M; Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDSL	Not determined
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies

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AICS

Complies

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Copper 7440-50-8	1.0

EPCRA: Emergency Planning and Community Right-to-Know Act

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Right-to-Know 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
Triphenyl phosphate 115-86-6	X	X	X
graphite 7782-42-5	X	X	X
Copper	X	X	X

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7440-50-8			
Silica, quartz 14808-60-7	X	X	X

NFPA **Health hazards** 0 **Flammability** 1 **Stability** 0

16. OTHER INFORMATION

Prepared By
 Issuing Date 06-08-2022
 Revision Date 07-22-2024
 Reason for revision SDS sections updated.

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



SAFETY DATA SHEET

SDS: 9212

Easy Bar® with Almasol®

Issuing Date 06-08-2022

Revision Date 07-22-2024

Revision Number 3.3

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

Product Identifier

Product Name Easy Bar® with Almasol®

Other means of identification

Product Code(s) 9212

UN-No UN3077

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Emergency Overview

Signal Word None

Appearance bronze

Physical state Solid

Response

None.

Eyes

None.

Skin

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None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None.

Storage

None.

Disposal

None.

Hazards not otherwise classified (HNOC)

None

- MAY BE HARMFUL IF SWALLOWED
- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Triphenyl phosphate	115-86-6	60 - 70
graphite	7782-42-5	30 - 40
Copper	7440-50-8	1 - 5

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Consult a physician. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 204 °C - 399.92 °F

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam, Dry chemical

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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 gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

NFPA Health hazards 0 Flammability 1 Stability 0

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Do not touch or walk through spilled material. Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for Cleaning up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Product should be stored below 43C/110°F. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Incompatible products Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate	TWA: 3 mg/m ³	TWA: 3 mg/m ³ (vacated) TWA: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 3 mg/m ³
graphite	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 2.5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³
Copper	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ (vacated) TWA: 0.1 mg/m ³	IDLH: 100 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.
Skin and Body Protection	Long sleeved clothing. Protective gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	bronze
Odor	Hydrocarbon-like
Odor threshold	No information available
Property	Values
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	204 °C / 399.92 °F
Flashpoint Method	PMCC
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Hyphen	-
Viscosity, kinematic	cSt @ 40°C

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10. STABILITY AND REACTIVITY

reactivity	No information available
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to Avoid	Heat, flames and sparks Contact with other chemicals
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyl phosphate 115-86-6	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 200000 mg/m ³ (Rat) 1 h
graphite 7782-42-5	> 10000 mg/kg (Rat)	-	> 2000 mg/m ³ (Rat) 4 h
Copper 7440-50-8	-	-	> 5.11 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Chronic Toxicity Contains a known or suspected reproductive toxin.

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Target organ effects

Blood, Central Vascular System (CVS), Peripheral Nervous System (PNS), Respiratory system, Eyes, Liver, Kidney, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 4715 mg/kg
 ATEmix (dermal) 10011 mg/kg
 ATEmix (inhalation-dust/mist) 50.1 mg/l

12. ECOLOGICAL INFORMATION**Marine Pollutant**

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triphenyl phosphate 115-86-6	EC50 0.6 - 4 mg/L 96 h	LC50 0.28 - 0.5 mg/L Oncorhynchus mykiss 96 h LC50 0.81 - 0.94 mg/L Pimephales promelas 96 h LC50 0.53 - 0.8 mg/L Pimephales promelas 96 h LC50 0.47 - 1.04 mg/L Lepomis macrochirus 96 h LC50= 1.2 mg/L Oryzias latipes 96 h		EC50 0.86 - 1.2 mg/L 48 h
graphite 7782-42-5		LC50> 100 mg/L Danio rerio 96 h		
Copper 7440-50-8	EC50 0.0426 - 0.0535 mg/L 72 h EC50 0.031 - 0.054 mg/L 96 h	LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 1.25 mg/L Lepomis macrochirus 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h		EC50 = 0.03 mg/L 48 h

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Methods**

Dispose of in accordance with local regulations

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Contaminated Packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal

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

Chemical name	California Hazardous Waste Status
Copper 7440-50-8	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Marine Pollutant	Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

ICAO/IATA

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A179, A197, A215
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Triphenyl phosphate, Copp

IMDG

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing Group	III
Special Provisions	274, 335, 966, 967, 969 F-A S-F
Marine Pollutant	M; Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDSL	Not determined
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies

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AICS

Complies

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Copper 7440-50-8	1.0

EPCRA: Emergency Planning and Community Right-to-Know Act

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Right-to-Know 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
Triphenyl phosphate 115-86-6	X	X	X
graphite 7782-42-5	X	X	X
Copper	X	X	X

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7440-50-8			
Silica, quartz 14808-60-7	X	X	X

NFPA **Health hazards** 0 **Flammability** 1 **Stability** 0**16. OTHER INFORMATION**

Prepared By
Issuing Date 06-08-2022
Revision Date 07-22-2024
Reason for revision SDS sections updated.

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



SAFETY DATA SHEET

SDS: 9213

Easy Bar® with Almasol®

Issuing Date 06-08-2022

Revision Date 07-22-2024

Revision Number 3.3

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

Product Identifier

Product Name Easy Bar® with Almasol®

Other means of identification

Product Code(s) 9213

UN-No UN3077

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Emergency Overview

Signal Word None

Appearance bronze **Physical state** Solid

Response

None.

Eyes

None.

Skin

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None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None.

Storage

None.

Disposal

None.

Hazards not otherwise classified (HNOC)

None

- MAY BE HARMFUL IF SWALLOWED
- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Triphenyl phosphate	115-86-6	60 - 70
graphite	7782-42-5	30 - 40
Copper	7440-50-8	1 - 5

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Consult a physician. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 204 °C - 399.92 °F

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam, Dry chemical

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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 gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

NFPA Health hazards 0 Flammability 1 Stability 0

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Do not touch or walk through spilled material. Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for Cleaning up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Product should be stored below 43C/110°F. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Incompatible products Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

SDS: 9213

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate	TWA: 3 mg/m ³	TWA: 3 mg/m ³ (vacated) TWA: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 3 mg/m ³
graphite	TWA: 2 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 2.5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³
Copper	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ (vacated) TWA: 0.1 mg/m ³	IDLH: 100 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.
Skin and Body Protection	Long sleeved clothing. Protective gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	bronze
Odor	Hydrocarbon-like
Odor threshold	No information available
Property	Values
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	204 °C / 399.92 °F
Flashpoint Method	PMCC
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Hyphen	-
Viscosity, kinematic	cSt @ 40°C

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10. STABILITY AND REACTIVITY

reactivity	No information available
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to Avoid	Heat, flames and sparks Contact with other chemicals
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyl phosphate 115-86-6	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 200000 mg/m ³ (Rat) 1 h
graphite 7782-42-5	> 10000 mg/kg (Rat)	-	> 2000 mg/m ³ (Rat) 4 h
Copper 7440-50-8	-	-	> 5.11 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

The producer of "Easy Bar® with Almasol®" declares that it contains less than 3% DMSO extractable material by IP-346

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Chronic Toxicity Contains a known or suspected reproductive toxin.

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Easy Bar® with Almasol®

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Target organ effects

Blood, Central Vascular System (CVS), Peripheral Nervous System (PNS), Respiratory system, Eyes, Liver, Kidney, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 4715 mg/kg
 ATEmix (dermal) 10011 mg/kg
 ATEmix (inhalation-dust/mist) 50.1 mg/l

12. ECOLOGICAL INFORMATION**Marine Pollutant**

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triphenyl phosphate 115-86-6	EC50 0.6 - 4 mg/L 96 h	LC50 0.28 - 0.5 mg/L Oncorhynchus mykiss 96 h LC50 0.81 - 0.94 mg/L Pimephales promelas 96 h LC50 0.53 - 0.8 mg/L Pimephales promelas 96 h LC50 0.47 - 1.04 mg/L Lepomis macrochirus 96 h LC50= 1.2 mg/L Oryzias latipes 96 h		EC50 0.86 - 1.2 mg/L 48 h
graphite 7782-42-5		LC50> 100 mg/L Danio rerio 96 h		
Copper 7440-50-8	EC50 0.0426 - 0.0535 mg/L 72 h EC50 0.031 - 0.054 mg/L 96 h	LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 1.25 mg/L Lepomis macrochirus 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h		EC50 = 0.03 mg/L 48 h

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Methods**

Dispose of in accordance with local regulations

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Contaminated Packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal

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

Chemical name	California Hazardous Waste Status
Copper 7440-50-8	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Marine Pollutant	Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

ICAO/IATA

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A179, A197, A215
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Triphenyl phosphate, Copp

IMDG

UN number or ID number	UN3077
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Transport hazard class(es)	9
Packing Group	III
Special Provisions	274, 335, 966, 967, 969 F-A S-F
Marine Pollutant	M; Triphenyl phosphate, Copper
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenylphosphate, Copper), 9, III, Marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDSL	Not determined
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies

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AICS

Complies

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Copper 7440-50-8	1.0

EPCRA: Emergency Planning and Community Right-to-Know Act

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Right-to-Know 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
Triphenyl phosphate 115-86-6	X	X	X
graphite 7782-42-5	X	X	X
Copper	X	X	X

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7440-50-8			
Silica, quartz 14808-60-7	X	X	X

NFPA **Health hazards** 0 **Flammability** 1 **Stability** 0**16. OTHER INFORMATION**

Prepared By
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Reason for revision SDS sections updated.

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