

# Safety Data Sheet

## MagnaPlex 3 NLGI 1, 2

Revision date 30-Jan-2015

Version 1

### 1. IDENTIFICATION

#### 1.1. Product identifier

**Product name** MagnaPlex 3 NLGI 1, 2

**Synonyms** None

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Lubricating grease

**Uses advised against** No information available

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** D-A Lubricant Company, Inc.  
801 Edwards Drive  
Lebanon, IN 46052 USA  
317-923-5321

#### 1.4. Emergency telephone number

**ChemTel Emergency telephone** 1-800-255-3924  
**International Emergency telephone** +01-813-248-0585

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

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

#### 2.2. Label elements

#### 2.3. Hazards not otherwise classified (HNOC)

May be harmful in contact with skin. Causes mild skin irritation.

#### 2.4. Other information

3.97101% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Chemical name	CAS No	weight-%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1)	68649-42-3	<2.5
Antimony Dialkyldithiocarbamate	15890-25-2	0.1-1

The exact percentage (concentration) of composition has been withheld as a trade secret.

**Ingredient comments** This product is a lithium complex grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO-extract (IP 346).

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation** Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Skin contact** Wash skin with soap and water.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Ingestion** Do not induce vomiting without medical advice. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

**Symptoms** None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media** Use CO<sub>2</sub>, dry chemical, or foam.

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

#### 5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating and/or toxic gases.

**Hazardous combustion products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

#### 5.3. Advice 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

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Extremely slippery when spilled. Avoid contact with eyes and skin. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment as required. Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** Extremely slippery when spilled. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or mists.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep at a temperature not exceeding 45°C.

**Incompatible materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

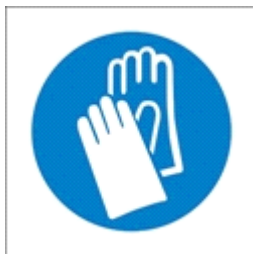
#### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Molybdenum disulfide	TWA: 10 mg/m <sup>3</sup> Mo inhalable fraction TWA: 3 mg/m <sup>3</sup> Mo respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> Mo	IDLH: 5000 mg/m <sup>3</sup> Mo
Antimony Dialkyldithiocarbamate	TWA: 0.5 mg/m <sup>3</sup> Sb	TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 50 mg/m <sup>3</sup> Sb TWA: 0.5 mg/m <sup>3</sup> Sb
Limestone		TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### 8.2. Exposure controls

**Engineering controls** Eyewash stations  
Ventilation systems

**8.3. Individual protection measures, such as personal protective equipment**

<b>Hand protection</b>	Wear protective nitrile rubber gloves. Thickness $\geq 0.38$ mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection.
<b>Eye/face Protection</b>	No special technical protective measures are necessary.
<b>Skin and body protection</b>	No special technical protective measures are necessary.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Smooth
<b>Physical state</b>	Semi-solid
<b>Color</b>	grey
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>		Not applicable
<b>Melting point/freezing point</b>		No information available
<b>Boiling point/boiling range</b>		Not applicable
<b>Flash point</b>	> 150 °C / > 302 °F	Based on base oils
<b>Evaporation rate</b>		Not applicable
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability limits in air</b>		No information available
<b>Upper flammability limit</b>		
<b>Lower flammability limit</b>		
<b>Vapor pressure</b>		Not applicable
<b>Vapor Density</b>		Not applicable
<b>Relative density</b>		No information available
<b>Water solubility</b>		No information available
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient (n-octanol/water)</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>		No information available
<b>Dynamic viscosity</b>		No information available

**Other information**

<b>Density</b>	< 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F
----------------	--

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
<b>Ingestion</b>	Malaise (vague feeling of discomfort).
<b>Skin contact</b>	May be harmful in contact with skin.
<b>Eye contact</b>	May cause slight irritation.

### 11.2. Information on toxicological effects

**Symptoms** No information available.

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

<b>Skin corrosion/irritation</b>	Not hazardous based on component data.
<b>Serious eye damage/eye irritation</b>	Not hazardous based on component data.
<b>Sensitization</b>	Not hazardous based on component data.
<b>Germ cell mutagenicity</b>	Not hazardous based on component data.
<b>Carcinogenicity</b>	Not hazardous based on component data.
<b>Reproductive toxicity</b>	Not hazardous based on component data.
<b>STOT-single exposure</b>	Not hazardous based on component data.
<b>STOT-repeated exposure</b>	Not hazardous based on component data.
<b>Aspiration hazard</b>	Not hazardous based on component data.

### 11.4. Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	LC50 (lethal concentration)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3	= 3600 mg/kg ( Rat )	> 20 000 mg/kg ( Rabbit )	-
---	----------------------	---------------------------	---

**Acute toxicity** 3.97101% of the mixture consists of ingredient(s) of unknown toxicity.

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

<b>ATEmix (oral)</b>	5527 mg/kg
<b>ATEmix (dermal)</b>	3773 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	150 mg/l
<b>ATEmix (inhalation-vapor)</b>	94000 mg/l

## 12. ECOLOGICAL INFORMATION

### 12.1. Ecotoxicity

Not regarded as dangerous for the environment. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3	-	1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static	-	1 - 1.5: 48 h Daphnia magna mg/L EC50

### 12.2. Persistence and degradability

Not readily biodegradable.

### 12.3. Bioaccumulative potential

Material does not bioaccumulate.

### 12.4. Mobility in soil

After release, adsorbs onto soil.

### 12.5. Results of PBT and vPvB assessment

No information available

### 12.6. Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

<b>Disposal of wastes</b>	Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8.
<b>Contaminated packaging</b>	Dispose of in accordance with federal, state and local regulations.
<b>US EPA waste number</b>	No information available
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used

Chemical name	California hazardous waste status
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3	Toxic
Antimony Dialkyldithiocarbamate 15890-25-2	Toxic

### 14. TRANSPORT INFORMATION

#### 14.1. UN number

Not regulated

#### 14.2. UN proper shipping name

Not regulated

#### 14.3. Transport hazard class(es)

Not regulated

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

None

#### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

#### 14.7. Special precautions for user

None

### 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**CWA (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
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3		X		
Antimony Dialkyldithiocarbamate 15890-25-2		X		

#### International Inventories

**TSCA** Complies

<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	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

**US 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	CAS No	weight-%	SARA 313 - Threshold Values %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3	68649-42-3	<2.5	1.0
Antimony Dialkyldithiocarbamate 15890-25-2	15890-25-2	0.1-1	1.0

**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

**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).

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations****US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) 68649-42-3	X		X

**U.S. EPA Label Information**

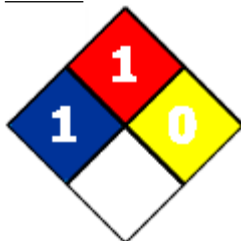
**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**



---

<u>HMIS</u>	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection p
<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Special Hazard -



Revision date	30-Jan-2015
Revision note	No information available

**Disclaimer**

The information provided in this 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 Material Safety Data Sheet