



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 17-Nov-2014

MagnaPlex SM

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name MagnaPlex SM

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

Recommended use Lubricating grease

1.3. Details of the supplier of the safety data sheet

Supplier

D-A Lubricant Company, Inc.
801 Edwards Drive
Lebanon, IN 46052 USA
317-23-5321

For further information, please contact

dalube@dalube.com

1.4. Emergency telephone number

Emergency telephone (800) 899-9004

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chronic aquatic toxicity Category 3 - (H412)

Classification according to Directive 67/548/EEC or 1999/45/EC

R-code(s) R52/53

R phrases

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.2. Label elements

Symbols/Pictograms None

| | |
|---------------------------------|--|
| Signal word | None |
| Hazard statements | H412 - Harmful to aquatic life with long lasting effects |
| Precautionary statements | P273 - Avoid release to the environment P501 - Dispose of contents/ container to an approved waste disposal plant |

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

| Chemical name | EC No | CAS No | weight-% | Classification according to Directive 67/548/EEC or 1999/45/EC | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|--|-----------|-------------|----------|--|---|---------------------------|
| Amides, coco, N,N-bis(hydroxyethyl), reaction products with coco monoglycerides and molybdenum oxide | - | 445409-27-8 | 2.5-5 | N; R51/53 | Aquatic Chronic 2 (H411) | No data available |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) | 272-028-3 | 68649-42-3 | <2.5 | Xi; R36/38 N; R51/53 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411) | No data available |
| Antimony Dialkyldithiocarbamate | 240-028-2 | 15890-25-2 | 0.1-1 | Xn; R20/22 N; R51/53 | Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411) | No data available |

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).

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1. Description of first aid measures**

| | |
|---------------------|--|
| Inhalation | Move to fresh air in case of accidental inhalation of vapors. |
| Skin contact | Wash with soap and water. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Ingestion | Do NOT induce vomiting. 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.

Section 5: FIREFIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing media**

Use CO₂, 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.

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Extremely slippery when spilled.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

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

Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

6.4. Reference to other sections**Other information**

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****Advice on safe handling**

Extremely slippery when spilled.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin.

7.2. Conditions for safe storage, including any incompatibilities**Storage conditions**

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

7.3. Specific end use(s)**Risk management methods**

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

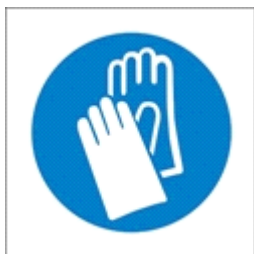
| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|---|--|----------------------------|--|---|----------------------------|
| Antimony Dialkyldithiocarbamate 15890-25-2 | | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | |
| Chemical name | Italy | Portugal | Netherlands | Finland | Denmark |
| Antimony Dialkyldithiocarbamate 15890-25-2 | - | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| Amides, coco, N,N-bis(hydroxyethyl), reaction products with coco monoglycerides and molybdenum oxide 445409-27-8 | - | - | STEL: 10 mg/m ³ TWA: 4 mg/m ³ | - | TWA: 0.5 mg/m ³ |
| Antimony Dialkyldithiocarbamate 15890-25-2 | STEL 1.5 mg/m ³ TWA: 0.5 mg/m ³ | - | - | TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³ | TWA: 0.5 mg/m ³ |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls None under normal processing.

Personal protective equipment**Hand protection**

Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Eye/face Protection

Avoid contact with eyes.

Body protection

Suitable protective clothing.

Respiratory protection

None under normal processing. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

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

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|----------------------|--------------------------|
| Physical state | Semi-solid |
| Appearance | Smooth |
| Color | green |
| Odor | Petroleum |
| Odor threshold | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|---------------------|--------------------------|
| pH | | No information available |
| Melting point/freezing point | | No information available |
| Boiling point/boiling range | > 260 °C / > 500 °F | No information available |
| Flash point | > 215 °C / > 419 °F | No information available |
| Evaporation rate | | Not applicable |
| Flammability (solid, gas) | | No information available |
| Flammability limits in air | | No information available |
| Vapor pressure | < 0.013 kPa | @ 20 °C |
| Vapor Density | | Not applicable |
| Specific gravity | 0.85-0.95 | @ 60 °F |
| Solubility(ies) | | No information available |
| Partition coefficient (n-octanol/water) | | No information available |
| Autoignition temperature | | No information available |
| Decomposition temperature | | No information available |
| Kinematic viscosity | | No information available |
| Dynamic viscosity | | No information available |

9.2. Other information

| | |
|---------|--|
| Density | < 1000 kg/m ³ @ 25 °C / 77 °F |
|---------|--|

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable under normal 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.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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

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

| | |
|--------------------|----------------|
| Oral LD50 | 6,414.00 mg/kg |
| Dermal LD50 | 8,895.00 mg/kg |
| Mist | 150.00 mg/l |

| Chemical name | Oral LD50 | Dermal LD50 | LC50 (lethal concentration) |
|--|----------------------|---------------------------|-----------------------------|
| Amides, coco, N,N-bis(hydroxyethyl), reaction products with coco monoglycerides and molybdenum oxide | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) | = 3600 mg/kg (Rat) | > 20 000 mg/kg (Rabbit) | |

Product Information

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

| | |
|---------------------|--|
| Inhalation | Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties. |
| Eye contact | Not expected to cause eye irritation |
| Skin contact | Prolonged contact may cause redness and irritation |
| Ingestion | Malaise (vague feeling of discomfort) |

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

| | |
|--------------------|---|
| Ecotoxicity | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|--------------------|---|

| Chemical name | Algae/aquatic plants | Fish | Toxicity to daphnia and other aquatic invertebrates |
|---------------|----------------------|------|---|
| | | | |

| | | | |
|---|--|---|--|
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (2:1) | | 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**Mobility in soil**

After release, adsorbs onto soil.

Mobility

Insoluble in water.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from residues/unused products**

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

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

Waste codes / waste designations according to EWC / AVV

13 08 99

Other information

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

Not regulated according to ADR/RID, IMDG, IATA.

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 regulated

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None

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

No information available

Section 15: REGULATORY INFORMATION

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

Water hazard class (WGK) Hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL | Complies |
| PICCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| AICS | Complies |
| KECL | Complies |
| NZIoC | - |

Legend

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

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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

R20/22 - Harmful by inhalation and if swallowed

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H412 - Harmful to aquatic life with long lasting effects
H302 - Harmful if swallowed
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements

P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

Revision Date: 17-Nov-2014

Revision note Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet