



Safety Data Sheet

DuraPlex 3, NLGI 1 and 2

Revision date 20-March-2015 Version 1

1. IDENTIFICATION

1.1.Product identifier

Product name DuraPlex 3, NLGI 1 and 2

Synonyms

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 20 March 2015

Revision date: Preparation date: 20 March 2015

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

Signal word Warning

Symbols/Pictograms



2.3. Hazards not otherwise classified (HNOC)

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

2.4. Other information

0.9% 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 | 68649-42-3 | <2.5 |
| salts (2:1) | | |

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

Ingredient comments This product is a anhydrous calciumgrease 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.

Eve 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 CO2, dry chemical, or foam.

Unsuitable extinguishing mediaDo 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

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from Storage conditions

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 ³ Mo inhalable fraction TWA: 3 mg/m ³ Mo respirable fraction | TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ Mo | IDLH: 5000 mg/m³ Mo |
| Antimony Dialkyldithiocarbamate TWA: 0.5 mg/m³ Sb | | TWA: 0.5 mg/m³ Sb (vacated) TWA: 0.5 mg/m³ Sb | IDLH: 50 mg/m³ Sb TWA: 0.5 mg/m³ Sb |

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



Hand protection Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480

minutes. Thickness 0.1 mm - splash protection.

Eve/face Protection No special technical protective measures are necessary.

Skin and body protectionNo special technical protective measures are necessary.

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 Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Smooth
Physical state Semi-solid

ColorNo information availableOdorNo information availableOdor thresholdNo information available

Property Values Remarks • Method

pH Not applicable

Melting point/freezing point No information available

Melting point/freezing pointNo information availableBoiling point/boiling rangeNot applicable

Flash point > 150 °C / > 302 °F Based on base oils

Evaporation rate

Not applicable

Flammability (solid, gas)

No information available

Flammability limits in air

Upper flammability limit

Lower flammability limit

Vapor pressureNot applicableVapor DensityNot applicable

Relative density
Water solubility
No information available
No information available
No information available
No information available

Partition coefficient No information available (n-octanol/water)

Autoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information available

Dynamic viscosity No information available

Other information

Density < 1000 kg/m³ @ 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

Inhalation Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.

Ingestion Malaise (vague feeling of discomfort).

Skin contact May be harmful in contact with skin.

Eye contact 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

Skin corrosion/irritationNot 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.

11.4. Numerical measures of toxicity

| Chemical name | Oral LD50 | Dermal LD50 | LC50 (lethal concentration) |
|---------------|-----------|-------------|-----------------------------|
|---------------|-----------|-------------|-----------------------------|

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

Acute toxicity 0.9% 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) 4715 mg/kg ATEmix (dermal) 4087 mg/kg

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

Disposal of wastesDispose of contents/container to industrial incineration plant. Use personal protection

recommended in Section 8.

Contaminated packaging Dispose of contents/container to industrial incineration plant

US EPA waste number No information available

Other information 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 |

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 | | Х | | |

International Inventories

TSCA Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies **NZIoC** 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 | l Values % |
|--|------------|
|--|------------|

| Phosphorodithioic acid, | 68649-42-3 | <2.5 | 1.0 |
|---------------------------------------|------------|------|-----|
| O,O-di-C1-14-alkyl esters, zinc salts | | | |
| (2:1) | | | |
| 68649-42-3 | | | |

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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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, | Χ | | X |
| O,O-di-C1-14-alkyl esters, zinc salts | | | |
| (2:1) | | | |
| 68649-42-3 | | | |
| Barium alkylnaphthalensulfonate | X | | X |
| 25619-56-1 | | | |
| Antimony Dialkyldithiocarbamate | X | | X |
| 15890-25-2 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection p

NFPA Health hazards 1 Flammability 1 Instability 0 Special Hazard -



Revision date 07-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