

Safety Data Sheet

ThermoPlex 3 NLGI 0, 1, 2

Revision date 16-Mar-2015

Version 1

1. IDENTIFICATION

1.1. Product identifier

Product name ThermoPlex 3 NLGI 0, 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

Emergency telephone 1-800-899-9004

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 in contact with skin. Causes mild skin irritation.

2.4. Other information

0.500001% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Chemical name | CAS No | weight-% |
|------------------------------|------------|----------|
| Butanedioic acid, dodecenyl- | 29658-97-7 | <2.5 |

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

Ingredient comments This product is a calcium sulfonate complex grease based on mineral oils. 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 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.

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

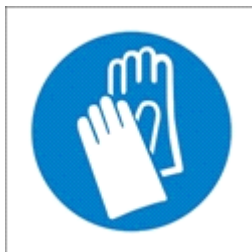
| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------|--|--|---|
| Limestone | | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Molybdenum disulfide | TWA: 10 mg/m ³ Mo inhalable fraction TWA: 3 mg/m ³ Mo respirable fraction | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ Mo | IDLH: 5000 mg/m ³ Mo |
| Silica | TWA: 0.025 mg/m ³ respirable fraction | (vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ 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



Hand protection Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection.

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

Skin and body protection No 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
Color grey
Odor No information available
Odor threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-------------------------|--------------------------|
| pH | | Not applicable |
| Melting point/freezing point | | No information available |
| Boiling point/boiling range | | Not 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 | | No information available |
| Upper flammability limit | | |
| Lower flammability limit | | |
| Vapor pressure | | Not applicable |
| Vapor Density | | Not applicable |
| Relative density | | No information available |
| Water solubility | | No information available |
| Solubility in other solvents | | 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 |

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/irritation | Not hazardous based on component data. |
| Serious eye damage/eye irritation | Not expected to cause eye irritation. Data obtained on this product or a similar product. |
| 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) |
|---|------------------------|-------------------------|-----------------------------|
| Butanedioic acid, dodeceny- 29658-97-7 | > 10 000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |

Acute toxicity 0.500001% 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) | 5018 mg/kg |
| ATEmix (dermal) | 2449 mg/kg |
| ATEmix (inhalation-vapor) | 18834 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.

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 wastes | Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8. |
| Contaminated packaging | Dispose of in accordance with federal, state and local regulations. |
| 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 |

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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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 contains the following Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|---------------------|---------------------------|
| Silica - 14808-60-7 | Carcinogen |

U.S. State Right-to-Know Regulations

US State Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Limestone 1317-65-3 | X | X | X |
| Hexylene glycol 107-41-5 | X | X | X |
| Silica 14808-60-7 | X | X | X |

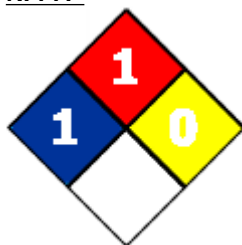
U.S. EPA Label Information

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 16-Mar-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