

Safety Data Sheet

Product No. 16061, 16061-20 Molydag Lubricant 210

Issue Date (11-13-14)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Molydag Lubricant 210

Synonym: Bonderite L-GP 210 Dryfilm Coating, Acheson as Molydag210

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS Pictograms



GHS02



GHS08



GHS09

GHS Categories

GHS02 – Flammable

Flammable liquid 2

H223: Highly flammable liquid and vapor

GHS08 – Health Hazard

STOT-SE 3

H335: May cause respiratory irritation

Aspiration Hazard 1

H304: May be fatal if swallowed and enters airways

GHS09 – Irritant

Skin Irrit. 2

H315: Causes skin irritation

Eye Irrit. 2A

H319: Causes serious eye irritation

Skin Sens. 1

H317: May cause an allergic skin reaction

2.2 Label elements

Hazard Pictograms



Signal Word: DANGER

Hazard Statements

H223 Highly flammable liquid and vapor

- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary Statements

- P210 Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P235 Keep cool.
- P241 Use explosion-proof equipment.
- P242 Use only non-sparking tools.
- P243 Prevent static discharge.
- P261 Avoid breathing vapors/mist/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in well-ventilated area.
- P272 Do not allow contaminated work clothing out of workplace.
- P273 Avoid release to environment.
- P280 Wear protective gloves/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call physician or poison control center.
- P303+P361 If on skin (or hair): Immediately remove contaminated clothing.
- P304+P340 IF INHALED: Remove person to fresh air. Keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Remove contact lenses, if present and easy to do so. Rinse cautiously with water several minutes.
- P312 Call poison venter or physician if feeling unwell.
- P331 Do NOT induce vomiting.
- P333+P315 If skin irritation/rash occurs: Get medical attention.
- P337+P315 If eye irritation persists: Get medical attention.
- P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
- P403 Store in a well-ventilated place.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/ regional/national/international regulations.

2.3 Other hazards

Health Effects:

NFPA Hazard Rating: ND

HMIS® Hazard Rating: ND

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: ND

Emergency overview:

Appearance: Grey-green liquid

Immediate effects: Severe irritation or damage to eyes; irritating to respiratory system.

Potential health effects

Primary Routes of entry: Skin, inhalation, eyes

Signs and Symptoms of Overexposure:

Eyes: Severely irritating to eyes and may cause irreversible damage including burns and blindness.

Skin: Prolonged contact may result in redness, burning sensation or dermatitis. A component of this product may be absorbed through the skin in harmful amounts.

Ingestion: Small amounts aspirated into lungs may cause mild to severe pulmonary injury. Harmful or fatal if swallowed. May cause gastrointestinal irritation, nausea, dizziness, incoordination, headache, vomiting and diarrhea.

Inhalation: Irritating to respiratory system. Excessive inhalation causes headache, dizziness, nausea and incoordination.

Chronic Exposure: ND

Chemical Listed as Carcinogen or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV ppm	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
2-Propanol (67-63-0) EC. No. 200-661-7	60-100	980	200 TWA 400 STEL	No	No	No
Cellulose, ethyl ether (Proprietary)	5-10	ND	ND	No	No	No
1,2,4-Trimethylbenzene (95-63-6) EC. No. 202-436-9	1-5	ND	25 TWA	No	No	No
Petroleum naphtha, light aromatic (Proprietary)	1-5	ND	ND	No	No	No
Tris(methylphenyl) phosphate (1330-78-5) EC No. 215-548-8	0.1-1	ND	ND	No	No	No

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

Skin Contact: Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.

Inhalation: Immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Note to physician

Treatment: Treat symptomatically and supportively.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 11.6 °C (52.88 °F)

Flammable Limits: lower-2%; upper-12%

Auto-ignition point: NA

Fire Extinguishing Media: Water spray (fog), foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dangerous when exposed to heat or flame. Material can be ignited by flame or spark under all normal atmospheric conditions. Vapors are heavier than air and may travel to ignition sources and flash back. Formation of toxic gases is possible during heating or in fires.

Hazardous combustion products: Upon decomposition, emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

DOT Class: NA

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Absorb spill with inert material. Shovel material into appropriate container for disposal.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Remove all sources of ignition. Do not allow product to enter sewer or waterways.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Do not take internally. For industrial use only.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Outside temperature limits, the properties of the product will change. Store in original container until ready to use. Keep out of reach of children and away from food and drink. Protect from direct sunlight. Ground and bond metal containers for liquid transfer to avoid static sparks.

Storage temperature: 5.0-30.0 °C

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Personal Protection Equipment

Respiratory protection: If ventilation is insufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection is required.

Protective gloves: Impervious gloves for prolonged contact.

Skin protection: Impervious apron and boots are recommended.

Eye protection: Safety glasses. Wear chemical goggles if splashing is possible.

Additional clothing and/or equipment:

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Grey-green liquid

Odor (threshold): Alcoholic (7.5 ppm)

Specific Gravity (H₂O=1): 0.91

Vapor Pressure (mm Hg): 33
Vapor Density (air=1): 2.07
Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1): 2.9
Boiling Point: 82 °C (179.6 °F)
Melting point: -88.8 °C
pH: NA
Solubility in Water: Disperses in water as a suspension
Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Excessive heat and ignition sources.

Materials to Avoid (Incompatibility): Reacts with air to form peroxides. Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors.

Upon decomposition, emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed:

Component: 2-Propanol

Oral LD50 (rat): 5,045 mg/kg

Oral LD50 (rabbit): 6,410 mg/kg

Oral LD50 (rat): 4.7 g/kg

Oral LD50 (rabbit): 8.0 g/kg

Oral LD50 (rabbit): 50.3 g/kg

Dermal LD50 (rabbit): 12,800 mg/kg

Immediate and delayed health effects:

Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen

Component: Cellulose, ethyl ether

Immediate and delayed health effects:

Irritant

Component: 1,2,4-Trimethylbenzene

Oral LD50 (rat) = 6.0 g/kg

Dermal LD50 (rabbit) = > 3,160 mg/kg

Inhalation LC50 (rat, 48 h) = > 2000 ppm

Immediate and delayed health effects:

Central nervous system, Irritant, Respiratory

Component: Petroleum naphtha, light aromatic

Immediate and delayed health effects:

Irritant

Component: Tris(methylphenyl) phosphate

Immediate and delayed health effects:

Blood, Gastrointestinal, Irritant, Kidney, Liver, Nervous System, Reproductive System

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information: NA

Chemical Fate Information: NA

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: D001, ignitable waste

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Isopropyl Alcohol

Hazard Class: 3

Packaging group: II

UN Number: UN 1219

DOT Hazardous Substance: Xylene (mixed)

IATA: Proper shipping name: Isopropyl Alcohol

Hazard Class: 3

Packaging group: II

UN Number: UN 1219

IMO: Proper shipping name: Isopropyl Alcohol

Hazard Class: 3

Packaging group: II

UN Number: UN 1219

Marine Pollutant: No

Canadian TDG: Isopropyl Alcohol

Section 15: Regulatory Information

United States Federal Regulations

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA Section 302 EHS: None reporting *de minimis*

SARA Section 311/312: Immediate health, fire

SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 1,2,4-Trimethylbenzene (CAS# 95-63-6).

RCRA: ND

TSCA: All components are either listed or exempt from listing

CERCLA: None listed.

State Regulations

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

(Found in Petroleum naphtha, light aromatic)

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: See section 3

Section 16: Other Information

Label Information: See section 2

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other

information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

SDS Form 0013F1V4