

Product Crystal Grease

320 Revision Date 07/01/2015

Revision 1

AUTO
Technology**Safety Data Sheet****SECTION 1: IDENTIFICATION**

Product Name	Crystal Grease 320
Product Code	U-LH00001-08, U-LH00001-35
Identifier Uses	No specific uses identified.
Supplier	Auto Technology Company 20026 Progress Drive Strongsville, Ohio 44149 Tel: (1-440-572-7800)
Contact Person	sales@autotechnology.com
Emergency Telephone	Chemtrec 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Paste.
Color	Light Amber/Green.
Odor	Characteristic Odor.

Pictogram(s)



Signal Word

Warning

Hazard Statements

H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements

P264 Wash thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

GHS Classification

Physical and Chemical Hazards
Human Health
Environment

Not classified
Skin Irrit.3 - H316, Eye Irrit.2A - H319
Not classified

OSHA Regulatory Status

This product is Hazardous under the OSHA Hazard communication Standard.

Inhalation

May cause respiratory tract irritation. Exposure to high concentrations of dense oil

Ingestion	mists may lead to oil pneumonia. Practically non-toxic. Aspiration into lungs may cause pneumonitis. May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.
Skin contact	Practically non-toxic. Slightly irritating. Repeated or prolonged contact may result in defatting, oil acne, redness, itching, inflammation, cracking and possible secondary infection. Contact with heated material may cause thermal burns.
Eye contact	Slightly irritating. Contact with heated material may cause thermal burns.

Routes of Exposure

No Information available.

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
Lithium, 12-hydroxyoctadecanoate sebacate complexes	CAS-No.: 68815-49-6		1-10%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	CAS-No.: 68649-42-3	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Aquatic Chronic 2 - H411	1-10%
White mineral oil (petroleum)	CAS-No.: 8042-47-5 EC No.: 232-455-8		60-100%

Composition Comments

SECTION 4: FIRST AID MEASURESDescription of first aid measures**General Information**

General first aid, rest, warmth and fresh air.

Inhalation
persists.

Remove affected person from source of exposure. Get medical attention if irritation persists.

Ingestion

Do not induce vomiting because of danger of aspirating liquid into lungs. If spontaneous vomiting occurs, monitor for breathing difficulty. Get immediate medical attention.

Skin contact

Remove contaminated clothing immediately. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists. Thermal burns require immediate medical attention.

Eye contact

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. Thermal burns require medical attention.

Most important symptoms and effects, both acute and delayed**General Information**

No information available

Inhalation

May cause respiratory tract irritation. Exposure to high concentrations of dense oil mists may lead to oil pneumonia.

Ingestion

Practically non-toxic. Aspiration into lungs may cause pneumonitis. May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

Skin contact

Practically non-toxic. Slightly irritating. Repeated or prolonged contact may result in defatting, oil acne, redness, itching, inflammation, cracking and possible secondary infection. Contact with heated material may cause thermal burns.

Eye contact

Slightly irritating. Contact with heated material may cause thermal burns.

Routes of Exposure

No Information available.

Most important symptoms and effects, both acute and delayed**Notes To The Physician**

Treat Symptomatically.

SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C) No Information available.
 Flammability Limit-Lower(%) No Information available.
 Flammability Limit-Upper(%) No Information available.
 Flashpoint 320.0 °F

Extinguishing Media

Use dry chemical, foam or carbon dioxide to extinguish fire. Water or foam may cause frothing, with further application leading to boil over. Use a water spray to cool fire exposed containers, structures and to protect personnel. Use water to flush spills away from sources or ignition. Do not flush down public sewers.

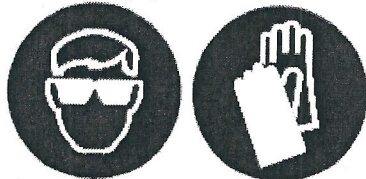
Hazardous combustion products	Irritating or toxic substances may be emitted upon thermal decomposition.
Unusual Fire & Explosion Hazards	Combustible at high temperatures.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire. Avoid breathing fire vapours.
Protective equipment for fire-fighters	Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

SECTION 6: Accidental Release Measures

Personal Precautions	Use proper personal protection (refer to Section 8).
Environmental Precautions regarding	Take immediate steps to stop and contain the spill. Caution should be exercised personnel safety and exposure to the spilled material.
Spill Clean Up Methods	Stop leak if you can do it without risk. Small Spills: Take up with sand or other noncombustible absorbent material or other sorbent known to be compatible, then flush area with water. Large Spills: Dike far ahead of spill for later disposal.

SECTION 7: Handling and Storage

Handling	Use proper personal protection when handling (refer to Section 8). Empty containers may contain flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld or reuse containers unless adequate pre-cautions are taken against these hazards.
Usage Description	Use only according to directions.
Storage Precautions heat,	Store in tightly closed containers in cool, dry, isolated, well-ventilated area away from sources of ignition and incompatibles. Do not store in unlabeled containers.
Specific End Use(s)	The identified uses are in section 1 of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection**Protective Equipment**

Ingredient Comments	No occupational exposure limits noted for the ingredients(s).
Process Conditions	Keep container tightly sealed when not in use. Provide eyewash, quick drench.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Use NIOSH or MSHA approved equipment when airborne exposure limits are exceeded. Ventilation may be used to control or reduce airborne concentrates.
Hand Protection	Wear impervious gloves and protective clothing to prevent skin contact.
Eye Protection facilities	Wear safety glasses or chemical goggles to prevent eye contact. Have eye washing readily available where eye contact can occur. Do not wear contact lenses when working with this substance.
Hygiene Measures	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties**Information on Basic Physical and Chemical Properties**

Appearance	Paste.
Color	Light Amber/Green.
Odor	Characteristic Odor.
Odor Threshold -Lower	No Information available.
Odor Threshold -Upper	No Information available.

pH-Value, Conc. Solution	No Information available.
Melting point	No Information available.
Initial boiling point and boiling range	650.0 - 0.0 °F
Flashpoint	320.0 °F

Evaporation rate	No Information available.
Flammability State	No Information
available. Flammability Limit - Lower(%)	No
Information available. Flammability Limit - Upper(%)	No
Information available. Vapor pressure	0.10 mm Hg 100.00 °F
Vapor Density (air=1)	No Information available.
Relative density	0.89 @ 60.0 °F
Bulk Density	No Information available.
Solubility	Not soluble in water.
Decomposition temperature	No Information
available. Partition coefficient; n-octanol/water	No
Information available. Auto Ignition Temperature (°C)	No
Information available. Viscosity	No Information
available.	
Explosive Properties	No information available.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Combustion may produce Carbon Monoxide, Carbon Dioxide and related Hydrocarbons.
Stability	Stable under normal temperature conditions and recommended use.
Hazardous Polymerisation	Hazardous Polymerisation is not stated on the safety data sheet.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide and Hydrocarbons.
Conditions to Avoid	Avoid contact with strong oxidizers.
Materials to Avoid	Keep away from strong oxidizers.

SECTION 11: Toxicological Information

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	No Information available.
Acute Toxicity (Dermal LD50)	Not available.
Acute Toxicity (Inhalation LC50)	No Information available.
Skin Corrosion/Irritation	No Information available.

Respiratory Sensitisation	No Information available.
Skin Sensitisation	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.

NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC Carcinogenicity	The product and its components are not listed.

Specific Target Organ Toxicity - Single Exposure:

STOT - Single Exposure	No Information available.
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Specific Target Organ Toxicity - Repeated Exposure:

STOT - Repeated Exposure	No Information available.
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SECTION 12: Ecological Information

Ecotoxicity	No Ecological information on the finished product.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	The degradability of the product has not been stated.
Bioaccumulative Potential	No data available on bioaccumulation.
Mobility	Not soluble in water.
Results of PBT and vPvB Assessment	The product does not contain any PBT or vPvB Substances.
Other Adverse Effects	No information available.

SECTION 13: Disposal Considerations

Waste Management must be	The transportation, storage, treatment, and disposal of this waste material conducted in compliance with all applicable Federal, state, and local regulations.
Disposal Methods hazardous waste	This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however it could be hazardous if it is considered toxic, corrosive, ignitable, or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This substance could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262, 263 and 264 apply.

SECTION 14: Transport Information

UN No. (DOT/TDG)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (ICAO)	Not applicable.
DOT Proper Shipping Name	Not applicable.
TDG Proper Shipping Name	Not applicable.
DOT Hazard Class	Not applicable.

DOT Hazard Label	Not applicable.
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TDG Class	Not applicable.
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TDG Label(s)	Not applicable.
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IMDG Class	Not applicable.
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ICAO Class	Not applicable.
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Transport Labels	
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DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.
EMS	Not applicable.
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: Regulatory Information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The Following ingredients are listed None Listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed None Listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed None Listed.

SARA 313 Emission Reporting

The Following ingredients are listed None Listed.

CAA Accidental Release Prevention

The Following ingredients are listed None Listed.

OSHA Highly Hazardous Chemicals

The Following ingredients are listed None Listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed None Listed.

California Air Toxics "Hot Spots" (A-II)

The Following ingredients are listed None Listed.

Massachusetts "Right To Know" List

The Following ingredients are listed None Listed.

Rhode Island "Right To Know" List

The Following ingredients are listed None Listed.

Minnesota "Right To Know" List

The Following ingredients are listed None Listed.

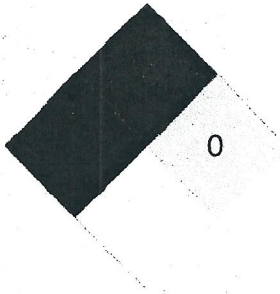
New Jersey "Right To Know" List

The Following ingredients are listed None Listed.

Pennsylvania "Right To Know" List

The Following ingredients are listed None Listed.

SECTION 16: Other Information

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

Revision Comments	This is first issue
Revision Date	07/01/2015
Revision	1

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.