

#### SAFETY DATA SHEET

### Section 1 – Product & Company Identification

**Product Name:** 

Synthetic Gear Grease

**Product Catalog No.:** 

34522

Recommended Use: RIDGID 600 PD

Company Information:

North America
Ridge Tool Company
400 Clark Street
Elyria, Ohio 44035-6001
1-800-519-3456
(8:00 am – 5:00 pm EST, M-F)
Emergency Telephone
call 9-1-1 or local emergency number
www.RIDGID.com

Issue Date: June 16, 2017

# Section 2 – Hazards Identification

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012).

GHS Label Elements: Not applicable

HAZARD NOT OTHERWISE CLASSIFIED (HNOC):

None as defined under 29 CFR 1910.1200.

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

**HEALTH HAZARDS** 

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

**ENVIRONMENTAL HAZARDS** 

No significant hazards.



### Section 3 - Composition / Information On Ingredients

Component:	CAS#	% By Weight
1-DECENE, HOMOPOLYMER HYDROGENATED	68037-01-4	5 - 10%
TRIPHENYL PHOSPHATE	115-86-6	0.1 - 1%

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

Section 4 – First Aid Measures	

#### INGESTION:

First aid is normally not required. Seek medical attention if discomfort occurs.

#### INHALATION:

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT:

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### **EYE CONTACT:**

Flush thoroughly with water. If irritation occurs, get medical assistance.



### Section 5 – Fire Fighting Measures

#### **EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

#### FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Sulfur oxides, Smoke, Fume, Oxides of carbon

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: >210°C (410°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

### Section 6 – Accidental Release Measures

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.



#### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

### Section 7 – Handling And Storage

#### PRECAUTIONS FOR SAFE HANDLING:

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabeled containers



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### **Section 8 – Exposure Controls / Personal Protection**

#### **EXPOSURE LIMITS:**

Chemical name	form	type	Exposure Limit Values	Source
1-DECENE, HOMOPOLYMER HYDROGENATED	Aerosols (thoracic fraction)	TWA	5 mg/m3	Manufacturer
TRIPHENYL PHOSPHATE		TWA	3 mg/m3	OSHA Z1
TRIPHENYL PHOSPHATE		TWA	3 mg/m3	ACGIH

(Note: Exposure limits are not additive)

Exposure limits/standards for materials that can be formed when handling this produ**ct:**When mists/aerosols can occur the following are recommended: 5 mg/m³ ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.

### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

### Respiratory Protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: No special requirements under ordinary conditions of use and with adequate ventilation.



For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

#### Hand Protection:

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use.

### Eye Protection:

If contact is likely, safety glasses with side shields are recommended.

### Skin and Body Protection:

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

### Specific Hygiene Measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.



### Section 9 - Physical And Chemical Properties

**Appearance** 

Physical State Liquid Form Grease Color Orange

Odor Characteristic
Odor Threshold No data available
pH No data available

Melting point/freezing point

Initial boiling point and boiling range

Sale of (600 of)

Flash point

Evaporation rate

No data available

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%) 7.0 Flammability limit - lower (%) 0.9

Explosive limit – upper (%)

Explosive limit – lower (%)

No data available

No data available

Vapor pressure < 0.013 kPa (0.1 mm Hg) at 20 °C

Vapor density > 2 at 101 kPa

Relative density 0.869 Solubility(ies)

Solubility in water Negligible

Solubility (other)

No data available

Partition coefficient (n-octanol/water) >3.5

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## Section 10 - Stability And Reactivity

#### **REACTIVITY:**

See sub-sections below.

#### CHEMICAL STABILITY:

Material is stable under normal conditions.

#### POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization will not occur.

#### CONDITIONS TO AVOID:

Excessive heat. High energy sources of ignition.

#### **INCOMPATIBLE MATERIALS:**

Strong oxidizers.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Material does not decompose at ambient temperatures.

# Section 11 – Toxicological Information

### INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the
material.	components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling
	temperatures.
Ingestion	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the
material.	components.
Skin	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the
material.	components.
Skin Corrosion/Irritation: No end point	Negligible irritation to skin at ambient
data for material.	temperatures. Based on assessment of the
	components.
Eye	
Serious Eye Damage/Irritation: No end	May cause mild, short-lasting discomfort to eyes.
point data for material.	Based on assessment of the components.



Hazard Class	Conclusion / Remarks
Sensitization	
Respiratory Sensitization: No end point	Not expected to be a respiratory sensitizer.
data for material.	
Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on
material.	assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based
	on physico-chemical properties of the material.
Germ Cell Mutagenicity: No end point	Not expected to be a germ cell mutagen. Based
data for material.	on assessment of the components.
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on
material.	assessment of the components.
Reproductive Toxicity: No end point	Not expected to be a reproductive toxicant.
data for material.	Based on assessment of the components.
Lactation: No end point data for	Not expected to cause harm to breast-fed
material.	children.
Specific Target Organ Toxicity	
(STOT)	
Single Exposure: No end point data for	Not expected to cause organ damage from a
material.	single exposure.
Repeated Exposure: No end point data	Not expected to cause organ damage from
for material.	prolonged or repeated exposure. Based on
	assessment of the components.

#### OTHER INFORMATION

Contains synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 1 5 = IARC 2B 2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC



Product Name

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Synthetic Gear Grease

### Section 12 - Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

#### **ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

#### **MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### **ECOLOGICAL DATA**

#### **Ecotoxicity**

Test	Duration	Organism Type	Test Results
Aquatic - Acute	96 hour(s)	Oncorhynchus	LL50 1003 mg/l: data for similar
Toxicity		mykiss	materials
Aquatic - Chronic	21 day(s)	Daphnia magna	NOELR 1 mg/l: data for similar
Toxicity			materials

### Section 13 – Disposal Consideration

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

#### REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in the manufacturer's opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.



#### **EMPTY CONTAINER WARNING**

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### Section 14 – Transportation Information

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

# **Section 15 – Regulatory Information**

Listed or exempt from listing/notification on the following chemical inventories: TSCA Special Cases:

Inventory	Status
AICS	Restrictions Apply
KECI	Restrictions Apply

PRODUCT REGISTRATION STATUS: USA

EPCRA SECTION 302: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.



The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
PHENOL, 4,4-	118-82-1	5
METHYLENEBIS(2,6-BIS(1,1-		
DIMETHYLETHYL)-		

#### -- REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

### **Section 16 – Other Information**

Prepared by:..... Ridge Tool Company (Operating Standard 6-308)

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