

Lubricating oils, petroleum, hydrotreated spent (265-161-3)

Residual oils (petroleum), hydrotreated (265-160-8)

**EU List of Notified Chemical Substances (ELINCS):** Not applicable

Risk Phrases

Not Classified.

<b>SECTION 16: Other information</b>
--------------------------------------

This information has been compiled from sources considered to be dependable and is accurate to the best of AOCUSA knowledge. AOCUSA makes no warranty whatsoever, expressed or implied, of **MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE**, regarding the accuracy of such data or the results to be obtained from the use thereof. AOCUSA assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

The full text of the phrases appearing in section 3 is:

End of document

**New Chemical Substances  
(ENCS):**

Decanedioic Acid (2-878)  
Distillate (petroleum) hydrotreated heavy naphthenic ()  
Lithium stearate (2-611)  
Residual oils (petroleum), hydrotreated (9-1689)

**Korean Existing Chemicals  
Inventory:**

Decanedioic Acid  
Distillate (petroleum) hydrotreated heavy naphthenic  
Lithium stearate  
Residual oils (petroleum), hydrotreated

**Inventory of Existing Chemical  
Substances in China:**

**Philippines Inventory of  
Chemicals and Chemical  
Substances (PICCS) :**

Butene, polymer with 2-methyl-1-propene  
Decanedioic Acid  
Distillate (petroleum) hydrotreated heavy naphthenic  
Lithium stearate  
Lubricating oils, petroleum, hydrotreated spent  
Residual oils (petroleum), hydrotreated

**Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act** Not applicable  
:

**EU REACH: Annex XVII,  
Dangerous Substances and  
Preparations:**

Distillate (petroleum) hydrotreated heavy naphthenic  
Residual oils (petroleum), hydrotreated

**Inventory - European Union -  
European Inventory of Existing  
Commercial Chemical Substances  
(EINECS):**

Decanedioic Acid (203-845-5)  
Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0)  
Lithium stearate (224-772-5)

Not Applicable

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions. Shipping description may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. For information specific to your situation, consult your company's Hazardous Materials/Dangerous Goods expert.

## SECTION 15: Regulatory information

### National Legislation

United States:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

**SARA 311/312 (>0.1%):** Not applicable

**SARA 313 (>0.1%):** Not applicable

**CERCLA (>0.1%):** Not applicable

### Inventory - Canada - Non-Domestic Substances List (NDSL):

2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar"-me derivatives

**California Proposition 65 Cancer (>0.00%):** Not applicable

**California Proposition 65 Developmental (>0.00%):** Not applicable

**California Proposition 65 Female Reproductive (>0.00%):** Not applicable

**California Proposition 65 Male Reproductive (>0.00%):** Not applicable

### Inventory - Australia - Inventory of Chemical Substances (AICS):

Decanedioic Acid

Distillate (petroleum) hydrotreated heavy naphthenic

Lithium stearate

Lubricating oils, petroleum, hydrotreated spent

Residual oils (petroleum), hydrotreated

### Inventory - Japan Existing and

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

**SECTION 14: Transport information**

**14.1. UN number** Not applicable

**14.2. UN proper shipping name** Not regulated

**14.3. Transport hazard class(es)**

**US DOT Label** Not regulated

**ADR/RID** Not regulated

**IMDG** Not regulated

**Sub Class** Not applicable

**ICAO/IATA** Not regulated

**14.4. Packing group** Not applicable

**14.5. Environmental hazards**

**ADR/RID** Environmentally Hazardous: No - Not regulated

**IMDG** Marine Pollutant: No - Not regulated

**14.6. Special precautions for user**

No further information

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Germ cell mutagenicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive toxicity	Not Classified	Not Applicable
STOT-single exposure	Not Classified	Not Applicable
STOT-repeated exposure	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Lithium stearate - (0004485-12-5)	Not Available	Not Available	Not Available
Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5)	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00 (96 hr), Scenedesmus subspicatus
Butene, polymer with 2-methyl-1-propene - (0009044-17-1)	Not Available	Not Available	Not Available
Residual oils (petroleum), hydrotreated - (0064742-57-0)	Not Available	Not Available	Not Available
Decanedioic Acid - (0000111-20-6)	Not Available	Not Available	Not Available
Potassium Triborate Dispersion in Neutral Oil - (Proprietary or N/A)	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

May react with: oxidizing agents.

**10.4. Conditions to avoid**

High temperature, sparks, and open flames.

**10.5. Incompatible materials**

Keep away from strong oxidizing and reducing agents.

**10.6. Hazardous decomposition products**

Hazardous Decomposition Products: May form CO and CO2.

<b>SECTION 11: Toxicological information</b>
--

**Acute toxicity**

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapor LD50, mg/L/4hr
Butene, polymer with 2-methyl-1-propene - (0009044-17-1)	Not Available	Not Available	Not Available
Decanedioic Acid - (0000111-20-6)	>5,000, Rat	6,000.00, Rabbit	Not Available
Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5)	>5,000, Rat	5,000.00, Rabbit	Not Available
Lithium stearate - (0004485-12-5)	Not Available	Not Available	Not Available
Potassium Triborate Dispersion in Neutral Oil - (Proprietary or N/A)	Not Available	Not Available	Not Available
Residual oils (petroleum), hydrotreated - (0064742-57-0)	Not Available	Not Available	Not Available

Classification	Category	Hazard Description
Acute toxicity (oral)	Not Classified	Not Applicable
Acute toxicity (dermal)	Not Classified	Not Applicable
Acute toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	Not Classified	Not Applicable
Serious eye damage/irritation	Not Classified	Not Applicable
Respiratory sensitization	Not Classified	Not Applicable
Skin sensitization	Not Classified	Not Applicable

<b>Appearance</b>	
<b>Odor</b>	Petroleum Odor
<b>Odor threshold</b>	Not Determined
<b>pH</b>	Not Determined
<b>Melting point / freezing point (C)</b>	Not Determined
<b>Initial boiling point and boiling range (C)</b>	Not Measured
<b>Flash point (C)</b>	200
<b>Evaporation rate (H2O = 1)</b>	Not Determined
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Lower Explosive Limit:</b>	Not Determined
<b>Upper Explosive Limit:</b>	Not Determined
<b>Vapor pressure (Pa)</b>	Not Determined
<b>Vapor density</b>	Heavier than air.
<b>Relative density</b>	0.968
<b>Solubility(ies)</b>	negligible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Determined
<b>Auto-ignition temperature (C)</b>	Not Determined
<b>Decomposition temperature</b>	Not Determined
<b>Viscosity (cSt)</b>	
<b>@ 100 C</b>	Not Measured
<b>@ 40 C</b>	Not Measured
<b>Pour point temperature (C)</b>	Not Determined
<b>Volatile Organic Compounds</b>	nil
<b>SADT</b>	Not Determined

The data listed above are typical physical and chemical properties that do not constitute product specification.

## 9.2. Other information

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Material is normally stable at ambient temperature and pressure.

### 10.3. Possibility of hazardous reactions

	naphthenic	IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-57-0	Residual oils (petroleum), hydrotreated	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Potassium Triborate Dispersion in Neutral Oil	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;

#### **DNEL/PNEC values**

No Data Available

#### **8.2. Exposure controls**

No special requirements under ordinary conditions of use and with adequate ventilation.

#### **Eye/face protection**

Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

#### **Skin protection**

Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

#### **Other**

Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

#### **Respiratory protection**

Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

#### **Thermal hazards**

No Data Available

### **SECTION 9: Physical and chemical properties**



**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**The following occupational exposure limits have been established.**

CAS Number	Ingredient	Source	Value
0000111-20-6	Decanedioic Acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0004485-12-5	Lithium stearate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0009044-17-1	Butene, polymer with 2-methyl-1-propene	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0064742-57-0	Residual oils (petroleum), hydrotreated	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
Proprietary or N/A	Potassium Triborate Dispersion in Neutral Oil	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m<sup>3</sup> OSHA PEL and 10 mg/m<sup>3</sup> ACGIH.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000111-20-6	Decanedioic Acid	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0004485-12-5	Lithium stearate	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0009044-17-1	Butene, polymer with 2-methyl-1-propene	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-52-5	Distillate (petroleum) hydrotreated heavy	OSHA	Select Carcinogen: No

## **6.2. Environmental precautions**

Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.

## **6.3. Methods and material for containment and cleaning up**

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Dispose of in accordance with all federal, state, and local environmental regulations.

# **SECTION 7: Handling and storage**

## **7.1. Precautions for safe handling**

### **Handling**

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

### **In Storage**

Store in a dry location at room temperature.

Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

## **7.2. Conditions for safe storage, including any incompatibilities**

Keep away from strong oxidizing and reducing agents.

**CAUTION!!!** Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

## **7.3. Specific end use(s)**

There are no exposure scenarios, see details in section 1.

### **Inhalation**

If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

### **Skin**

In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

### **Eye**

In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.

### **Ingestion**

Do not induce vomiting. Call a physician or emergency medical facility immediately.

#### **4.2. Most important symptoms and effects, both acute and delayed**

No data available

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No data available

## **SECTION 5: Fire-fighting measures**

### **5.1. Extinguishing media**

Use Carbon dioxide (CO<sub>2</sub>), dry chemical, or foam to extinguish flames.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous Decomposition Products: May form CO and CO<sub>2</sub>.

### **5.3. Advice for fire-fighters**

Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from fire fighting to enter drains or water courses.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

<b>HMIS</b>	<b>Health:</b>	0	<b>NFPA</b>	<b>Health:</b>	0
	<b>Fire:</b>	1		<b>Fire:</b>	1
	<b>Physical Hazards:</b>	0		<b>Reactivity:</b>	0
	<b>PPE:</b>	C		<b>Special Hazards:</b>	--

### 2.3. Other hazards

This product contains no PBT/vPvB chemicals.

## SECTION 3: Composition/information on ingredients

Ingredient/Chemical Designations	Weight %	EC No. 1272/2008 / GHS Classification
Lithium stearate CAS Number: 0004485-12-5	52 - 60	Not Classified
Distillate (petroleum) hydrotreated heavy naphthenic CAS Number: 0064742-52-5	34 - 40	Not Classified
Butene, polymer with 2-methyl-1-propene CAS Number: 0009044-17-1	4.3 - 5	Not Classified
Residual oils (petroleum), hydrotreated CAS Number: 0064742-57-0	4.3 - 5	Not Classified
Decanedioic Acid CAS Number: 0000111-20-6	2.7 - 3	Not Classified
Potassium Triborate Dispersion in Neutral Oil CAS Number: Proprietary or N/A	2.7 - 3	Not Classified

\*The full texts of the phrases are shown in Section 16. 100 - 116 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**Safety Data Sheet**  
**Red-I EP Super Prem Grease #2**

**AOCUSA**

**Product Number:**  
**Revision Date:**

**50042-17**  
**01/10/2020**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Red-I EP Super Prem Grease #2

Product Code

50042

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Intended use

See Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer**

AOCUSA

8015 PARAMOUNT BLVD.

PICO RIVERA, CA 90660

**Telephone No.** (562) 776-4000

**1.4. Emergency telephone number**

ChemTel 1-800-255-3924 24hr

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Not Classified

**2.2. Label elements**

Using the Toxicity Data listed in section 11 & 12 the product is labeled as follows.

Not Classified



1601 McCloskey Boulevard  
 Tampa, Florida 33605 (USA)  
 Phone: (813) 248-1988

## CERTIFICATE of ANALYSIS

Red-I EP Super Premium EP Grease

NLGI # 2

Product Code: 50042- 882201281

Batch Number: 232396  
 Batch Quantity: 18,000 Pounds

Date of Manufacture: December 2022

<u>TEST</u>	<u>TEST METHOD</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>
Appearance	Spec	As per Std	<u>Conforms</u>
Color, Red	Spec	As per Std	<u>Conforms</u>
Consistency	Spec	Buttery	<u>Pass</u>
Texture	Spec	Smooth	<u>Pass</u>
Worked Penetration @ 77°F, 60 Strokes	ASTM D217	265 - 295	<u>266</u>
Dropping Point, °F	ASTM D2265	500 Min	<u>504</u>
Odor	Spec	As per Std	<u>Conforms</u>
Tackiness	Spec	Tacky	<u>Pass</u>

Jay Huang  
 Ron Mecua, Laboratory Manager

Manufacturing Locations: Tampa, FL (813) 248-1988 • Charleston, SC (877) 433-5346 • Vernon, CA (562) 776-4000 • Pico Rivera, CA (562) 776-4000

