



# SAFETY DATA SHEET

Issue Date 4/15/2015

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Version 1

## 1. IDENTIFICATION

### Product identifier

Product Name: RCD ISO 46

### Other means of identification

Product code: F-604 ISO 46

Synonyms: None

### Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant.

Uses advised against: No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC

PO BOX 1777

LODI, CA 95241

Phone: (800)-807-4496

Fax: (209)-334-6408

### Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

## EMERGENCY OVERVIEW

#### Signal word

Not Classified

#### Hazard statements

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil

Physical state Liquid

Odor Mild

Eyes None

Skin None

Inhalation None

Ingestion None

**Hazards not otherwise classified (HNOC)****Other information** Harmful to aquatic life with long lasting effects**Unknown Acute Toxicity**

2.36158% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	68515-49-1	10-40	*

**4. FIRST AID MEASURES****First aid measures**

- Eye contact:** Flush eye with water for 15 minutes. If symptoms persist, call a physician.
- Skin contact:** Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
- Inhalation:** If breathing is difficult, give oxygen. Consult a physician. Move to fresh air.
- Ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician if necessary.

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

**Symptoms:** No information available.

**Indication of any immediate medical attention and special treatment needed****5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire, cool tanks with water spray.

**Explosion data**

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Special protective equipment for firefighters**

In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Contaminated surfaces will be extremely slippery. Wear personal protective equipment.

**Environmental precautions**

**Environmental precautions:** Should not be released into the environment.

**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:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling:** Always replace cap after use. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep containers dry and tightly closed to avoid moisture absorption and contamination

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines:** Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m<sup>3</sup>, ACGIH STEL of 10 mg/m<sup>3</sup>.

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Respiratory protection:** Breathing apparatus needed only when aerosol or mist is formed.

**Hand protection:** Impervious gloves

**Eye protection:** Safety glasses

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect

**General Hygiene Considerations:** Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state:** Liquid

**Appearance:** Oil

**Odor:** Mild

**Color:** Clear

**Odor threshold:** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
<b>Melting point/freezing point</b>	No information available		<b>pH</b>	Not applicable
<b>Flash point</b>	> 232 °C / 450 °F	Cleveland Open Cup	<b>Boiling point / boiling range</b>	> 315 °C / 600 °F
<b>Flammability (solid, gas)</b>	No information available		<b>Evaporation rate</b>	No information available
<b>Upper flammability limit:</b>	No information available		<b>Flammability Limit in Air</b>	
<b>Vapor pressure</b>	No information available		<b>Lower flammability limit:</b>	No information available
<b>Specific Gravity</b>	< 1.0		<b>Vapor density</b>	No information available
<b>Solubility in other solvents</b>	No information available		<b>Water solubility</b>	Insoluble in water
			<b>Partition coefficient</b>	No information available

<b>Autoignition temperature</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	approx. 51.6 cSt @ 40 ° C	<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		

**Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY****Reactivity**

Not applicable

**Chemical stability**

**Stability:** Stable under normal conditions

**Possibility of Hazardous Reactions**

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid**

**Conditions to avoid:** No special storage conditions required

**Hazardous Decomposition Products**

**Hazardous Decomposition Products:** Incomplete combustion may produce small amounts of Carbon Oxides

**Incompatible materials**

**Incompatible materials:** Oxidizing agents

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Product Information:** Product does not present an acute toxicity hazard based on known or supplied information

**Eye contact:** May cause slight irritation.

**Skin contact:** Substance does not generally irritate and is only mildly irritating to the skin.

**Inhalation:** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	> 60000 mg/kg ( Rat )	= 16000 mg/kg ( Rabbit )	-

**Information on toxicological effects****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization:** No sensitization responses were observed.

**Mutagenic effects:** Did not show mutagenic or teratogenic effects in animal experiments.

<b>Carcinogenicity:</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity:</b>	This product does not contain any known or suspected reproductive hazards.
<b>STOT - Single Exposure:</b>	None under normal use conditions.
<b>STOT - Repeated Exposure:</b>	None under normal use conditions.
<b>Aspiration hazard:</b>	Not applicable.

#### **Numerical measures of toxicity - Product Information**

<b>Unknown Acute Toxicity:</b>	2.36158% of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (dermal):</b>	59447 mg/kg
<b>ATEmix (inhalation-dust/mist):</b>	466 mg/l

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No known hazards to the aquatic environment.

1.32% of the mixture consists of component(s) of unknown hazards to the aquatic environment

1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	
<b>Algae/aquatic plants</b>	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50
<b>Fish</b>	0.55: 96 h Lepomis macrochirus mg/L LC50 static 0.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.66: 96 h Pimephales promelas mg/L LC50 static 1: 96 h Oncorhynchus mykiss mg/L LC50 static 1: 96 h Pimephales promelas mg/L LC50 flow-through
<b>Crustacea</b>	0.18: 48 h Daphnia magna mg/L EC50

### **Persistence and degradability**

Readily biodegradable, according to appropriate OECD test. (based on components).

### **Bioaccumulation**

No information available.

### **Mobility**

The product is insoluble and floats on water.

Components	Partition coefficient
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	8.8

## **13. DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

<b>Disposal of wastes:</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging:</b>	Do not reuse container.

## **14. TRANSPORT INFORMATION**

<b><u>DOT:</u></b>	Not Regulated by any means of transportation
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## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA:</b>	Listed in TSCA
<b>DSL:</b>	All of the components in this product are listed in DSL
<b>EINECS/ELINCS:</b>	This product complies with EINECS/ELINCS
<b>CHINA:</b>	This product complies with China IECSC.
<b>KECL:</b>	This product complies with Korea KECL.
<b>PICCS:</b>	This product complies with Philippines PICCS.
<b>AICS:</b>	All the constituents of this material are listed on the Australian AICS

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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

### 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

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### 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)

#### 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

### State Regulations (RTK)

#### California Proposition 65

This product contains the following Proposition 65 chemical: DIDP

#### U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	Not Listed	Not Listed	Listed

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION

#### Nfpa

**Health:** 1

**Flammability:** 1

Instability: 0

NFPA/HMIS \* for Carc, Muta, Tera, Specific Organ \*

HMIS health rating

Health: 1

Flammability: 1

Physical hazards: 0

Personal protection: B

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Revision Note

Not applicable

**Disclaimer**

The information provided in this Material 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 Safety Data Sheet**