



Lubricants
United States

SAFETY DATA SHEET

Issue Date 02-Sep-2016

Revised: 7/13/2018

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name CHALLENGE D/E 46

Other means of identification

Product code:

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

Sunoco Lubricants
420 Imperial Court
Bensalem, PA 19020 USA
P: 800.660.0761
F: 215.352.0141

CHEMTREC

Emergency telephone number United States/Canada +1(800) 424-9300

Emergency Telephone

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

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	50 - 90%	*

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 (CO₂). 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/m³, ACGIH STEL of 10 mg/m³.

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. Wash off with soap and water

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>	<u>pH</u>	<u>Not applicable</u>
Melting point/freezing point	No information available		Boiling point / boiling range	> 315 °C / 600 °F
Flash point	> 232 °C / 450 °F	Cleveland Open Cup	Evaporation rate	No information available

Flammability (solid, gas)	No information available	Flammability Limit in Air	
Upper flammability limit:	No information available	Lower flammability limit:	No information available
Vapor pressure	No information available	Vapor density	No information available
Specific Gravity	< 1.0	Water solubility	Insoluble in water
Solubility in other solvents	No information available	Partition coefficient	No information available
Autoignition temperature	No information available	Decomposition temperature	No information available
Kinematic viscosity	approx. 42 cSt @ 40 ° C	Dynamic viscosity	No information available
Explosive properties	No information available		
Oxidizing properties	No information available		

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	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
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Incompatible materials

Incompatible materials	Oxidising agents
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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 diarrhoea.

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

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	43378 mg/kg
ATEmix (dermal)	12253 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

0.060% 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	
Algae/aquatic plants	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50
Fish	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
Crustacea	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

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

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

15. REGULATORY INFORMATION**International Inventories**

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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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 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