



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 PAO 460

**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

**Emergency telephone number**

**Emergency Telephone** CHEMTREC United States/Canada: 1-800-424-9300

## 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** Slight Sulphurous

**Eyes** None

**Skin** None  
**Inhalation** None  
**Ingestion** None

**Hazards not otherwise classified (HNOC)**

**Other information**

**Unknown Acute Toxicity**

2.04% 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.

### 4. FIRST AID MEASURES

**First aid measures**

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**Skin contact:** Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**Inhalation:** In the case of inhalation of aerosol/mist consult a physician if necessary.

**Ingestion:** Do not induce vomiting without medical advice. Drink 1 or 2 glasses of water. 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:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 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:** Do not flush into surface water or sanitary sewer system.

**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** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed

**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:** Gloves made of plastic or rubber

**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** Slight Sulphurous

**Color** Amber

**Odor threshold** No information available

**Property**      **Values**      **Remarks • Method**

**Melting**      No information

**point/freezing** available

**point**

**pH**      Not applicable

**Boiling point /** No information

**boiling range** available

|                                     |                          |                          |                                  |                          |
|-------------------------------------|--------------------------|--------------------------|----------------------------------|--------------------------|
| <b>Flash point</b>                  | > 232 °C /<br>450 °F     | Cleveland Open Cup       | <b>Evaporation rate</b>          | No information available |
| <b>Flammability (solid, gas)</b>    | No information available |                          | <b>Flammability Limit in Air</b> |                          |
| <b>Upper flammability limit:</b>    | No information available |                          | <b>Lower flammability limit:</b> | No information available |
| <b>Vapor pressure</b>               | No information available |                          | <b>Vapor density</b>             | No information available |
| <b>Specific Gravity</b>             | < 0.9                    |                          | <b>Water solubility</b>          | Insoluble in water       |
| <b>Solubility in other solvents</b> | No information available |                          | <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. 488 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**

|  |  |
|--|--|
| <b>Stability</b>                                 | Stable under normal conditions           |
| <b><u>Possibility of Hazardous Reactions</u></b> |  |
| <b>Possibility of Hazardous Reactions</b>        | None under normal processing.            |
| <b>Hazardous polymerization</b>                  | Hazardous polymerization does not occur. |

**Conditions to avoid**

|                            |  |
|----------------------------|--|
| <b>Conditions to avoid</b> | No special storage conditions required |
|----------------------------|--|

**Hazardous Decomposition Products**

|   |  |
|---|--|
| <b>Hazardous Decomposition Products</b> | Thermal decomposition can lead to release of irritating gases and vapors |
|---|--|

**Incompatible materials**

|                               |                  |
|-------------------------------|------------------|
| <b>Incompatible materials</b> | Oxidising agents |
|-------------------------------|------------------|

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

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information |
|----------------------------|--|

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | May cause slight irritation.   |
| <b>Skin contact</b> | Substance does not generally irritate and is only mildly irritating to the skin. |
| <b>Inhalation</b>   | Avoid breathing vapors or mists.   |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

|                                 |  |
|---------------------------------|--|
| <b>Sensitization</b>            | No sensitization responses were observed.  |
| <b>Mutagenic effects:</b>       | 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>   | 2.04% 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 (oral)</b>  | 8379 mg/kg   |
| <b>ATEmix (dermal)</b>  | 4432 mg/kg   |
| <b>ATEmix (inhalation-dust/mist)</b>  | 17.4 mg/l  |
| <b>ATEmix (inhalation-vapor)</b>  | 20511 mg/l   |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No known hazards to the aquatic environment.

2.05% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

The product is insoluble and floats on water.

**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

DOT Not Regulated by any means of transportation

## 15. REGULATORY INFORMATION

### International Inventories

|                      |  |
|----------------------|--|
| <b>TSCA:</b>         | Listed in TSCA                                       |
| <b>DSL:</b>          | Not listed in DSL                                    |
| <b>EINECS/ELINCS</b> | This product complies with EINECS/ELINCS             |
| <b>CHINA:</b>        | This product does not comply with China IECSC.       |
| <b>KECL:</b>         | This product does not comply with Korea KECL.        |
| <b>PICCS:</b>        | This product does not comply with Philippines PICCS. |
| <b>AICS:</b>         | This product does not comply with Australia AICS     |

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - 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 does not contain any Proposition 65 chemicals

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