

SAFETY DATA SHEET

Category 1

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-EP 460

Other means of identification Product code: Synonyms

Recommended use of the chemical and restrictions on useRecommended UseLubricant.Uses advised againstNo information available

None

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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Label Elements

Signal word Warning EMERGENCY OVERVIEW

Hazard statements May cause an allergic skin reaction

Appearance Oil	Physical state Liquid	Odor Slight Sulphurous
Wear protective gloves Skin IF ON SKIN: Wash with	as/mist/vapors/spray should not be allowed out of the workplace h plenty of soap and water s: Get medical advice/attention	
Precautionary Statements	- Disposal h federal, state and local regulations	
Hazards not otherwise clas Other information • May cause long lasting har	sified (HNOC)	

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components	ponents CAS-No Weight % Trade Secret			
Olefin Sulfide	68937-96-2	< 1%	*	
	4. FIRST AID MEAS	URES		
First aid measures				
,	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
	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. Move to fresh air.			
•	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 N	ms 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.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

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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 ed	quipment 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, includ	ing any incompatibilities		
Storage Conditions	Keep container tightly closed		
8. EX	POSURE 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 ³ , ACGIH STEL of 10 mg/m ³ .		
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: Hand protection: Eye protection:	Breathing apparatus needed only when aerosol or mist is formed. Gloves made of plastic or rubber Safety glasses		

Skin and body protection:

Usual safety precautions while handling the product will provide adequate protection against this potential effect Avoid contact with skin, eyes and clothing

General Hygiene Considerations

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance		Odor Slight Sulphurous	Color Amber		Odor thresholdNo information available
<u>Property</u> Melting point/freezing point	<u>Values</u> No information available	Remarks • Method	pH Boiling point / boiling range	Not applicable No information available	
Flash point Flammability (solid, gas) Upper flammability limit: Vapor pressure Specific Gravity Solubility in other solvents Autoignition temperature Kinematic viscosity Explosive prop Oxidizing prop	400 °F No information available No information available < 0.9 No information available < 0.9 No information available No information available approx. 490 cSt @ 40 ° C perties	Cleveland Open Cup No information available No information available	Water solubility Partition coefficient	No information available No information available Insoluble in water No information available nNo information available No information available No information available	
Other information Softening poir Molecular weig VOC Content (Density Bulk density	nt ght	No information available No information available No information available No information available No information available			

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability

Stability Possibility of Hazardous Reactions	Stable under normal conditions
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	<u>}</u>

Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors
Incompatible materials	

Incompatible materials

Oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Components	Oral LD50	Dermal LD50	Inhalation LC50	
Ingestion	Ingestion may cause gastrointesting	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.		
Inhalation	Avoid breathing vapors or mists.	Avoid breathing vapors or mists.		
Skin contact		Substance does not generally irritate and is only mildly irritating to the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.		
Eye contact	May cause slight irritation.	May cause slight irritation.		
Product Information	Product does not present an acute	Product does not present an acute toxicity hazard based on known or supplied information		

Components	Oral LD50	Dermal LD50	Inhalation LC50
Olefin Sulfide - 68937-96-2	= 6500 mg/kg (Rat)	-	-
			•

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic effects: Carcinogenicity	May cause sensitization by skin contact. Did not show mutagenic or teratogenic effects in animal experiments. 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)	11753	mg/kg
ATEmix (dermal)	13565	mg/kg
ATEmix (inhalation-dust/mist)	27246	mg/l
ATEmix (inhalation-vapor)	11216	mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long lasting harmful effects to aquatic life

).45% of the mixture consists of componen	nts(s) of unknown l	hazards to the aquatic environment
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Olefin Sulfide - 68937-96-2			
Algae/aquatic plants		-	

Fish	250 - 500: 96 h Pimephales promelas mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50	
	semi-static	
Crustacea	1000: 48 h Daphnia magna mg/L EC50	

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

 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/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

<u>SARA 313</u>

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	Yes
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 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: 2 Flammability: 1 Physical hazards 0 Personal protection B

Issue Date Revision Date Revision Note Not applicable <u>Disclaimer</u> The information provided in 02-Sep-2016 02-Sep-2020

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