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

1.1 Product identifier			
Product name	: PRECISION [™] SYNTHETIC HEAVY 460		
Product code	: PSHP17, PSHKGL, PSHDRL, PSH, PSHC30		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Use of the Substance/Mixture	Precision Synthetic Heavy is a multi-service industrial and automotive, high temperature synthetic EP grease. It is recommended for the following applications: paper mill dryer felt-roll bearings; paper mill wet end bearings; paper mill general greasing applications; automatic greasing systems in wet/hostile or high temperature environments.		

1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

		HollyFrontier LSP Europe BV Mainhavenweg 6 1043 AL Amsterdam The Netherlands	
Telephone	:	+31 (0)85 4000080	
E-mail address of person responsible for the SDS	:	EUSDS@hfsinclair.com	

1.4 Emergency telephone number

Emergency telephone	:	CHEMTREC: +1-703-741-5970;
number		Poison Control Centre: Consult local telephone directory for
		emergency number(s).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH208 Contains Succinic Anhydride, Alkylation Products With C12-Rich Branched Olefins From Propene Oligomerisation, Hydrolyzed, Esterification Products with propylene oxide. May produce an allergic reaction.



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EUH210 Safety data sheet available on request.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	Classification	(% w/w)
	Index-No.		· · · ·
	Registration number		
Benzenamine, N-phenyl-, reaction	68411-46-1	Aquatic Chronic 3;	2.5 - 10
products with 2,4,4-		H412	
trimethylpentene	270-128-1		
reaction mass of isomers of: C7-	125643-61-0	Aquatic Chronic 4;	1 - 2.5
9-alkyl 3-(3,5-di-tert-butyl-4-		H413	
hydroxyphenyl)propionate	406-040-9		
	607-530-00-7		
Succinic Anhydride, Alkylation		Eye Dam. 2; H319	0.1 - 1
Products With C12-Rich Branched		Skin Sens. 1B; H317	
Olefins From Propene	943-535-3		
Oligomerisation, Hydrolyzed,			
Esterification Products with			
propylene oxide			
For explanation of abbreviations se	e section 16.		

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	: Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice. In the event of a known, or potential, high pressure injection injury, worker should obtain immediate medical evaluation.
In case of eye contact	 Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a



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physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Risks

: First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

	Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media	:	No information available.
5.2	Special hazards arising from	the	substance or mixture
	Specific hazards during firefighting	:	Cool closed containers exposed to fire with water spray.
	Hazardous combustion products	:	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), phosphorus oxides (POx), hydrogen sulphide (H2S), alkyl mercaptans, sulfides, smoke and irritating vapours as products of incomplete combustion.
5.3	Advice for firefighters		
	Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions. Mark the contaminated area with signs and prevent access to unauthorized personnel.	
		Only qualified personnel equipped with suitable protective equipment may intervene.	

6.2 Environmental precautions

Environmental precautions	:	Do not allow uncontrolled discharge of product into the
		environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:
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Prevent further leakage or spillage if safe to do so.



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Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Advice on protection against fire and explosion	:	None known.
Hygiene measures	:	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.
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7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection Internet: lubricants.petro-canada.com/sds Trademarks are owned or used under license.



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Material	:	neoprene, nitrile, polyvinyl alcohol (P\	/A), Viton [®] .
Remarks	:	Chemical-resistant, impervious gloves approved standard should be worn at chemical products if a risk assessmer necessary.	all times when handling
Skin and body protection	:	Choose body protection in relation to concentration and amount of dangero the specific work-place.	
Respiratory protection	:	Use respiratory protection unless ader ventilation is provided or exposure as that exposures are within recommend Respirator selection must be based or exposure levels, the hazards of the pr working limits of the selected respirator	sessment demonstrates ed exposure guidelines. n known or anticipated oduct and the safe
Filter type	:	organic vapour filter	
Protective measures	:	Wash contaminated clothing before re	e-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Stringy, smooth, semi-solid.
Colour	:	gold
Odour	:	Mild grease like.
Odour Threshold	:	No data available
Pour point	:	-33 °C
		Base Fluid Blend
Boiling point/boiling range	:	No data available
Flash point	:	263 °C
		Method: Cleveland open cup Base Fluid Blend
Fire Point	:	291 °C Base Fluid Blend
Auto-Ignition Temperature	:	No data available
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	0.8845 kg/l (15 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	Base Fluid Blend 42.9 cSt (100 °C)	
		Base Fluid Blend	
Flammability	:	Low fire hazard. This material must b will occur.	e heated before ignition
Explosive properties	:	Do not pressurize, cut, weld, braze, s expose containers to heat or sources	
.2 Other information			

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.5 POSSIDINILY OF Hazardous reaction	
Hazardous reactions :	Hazardous polymerisation does not occur.Stable under normal conditions.
10.4 Conditions to avoid	
Conditions to avoid :	No data available
10.5 Incompatible materials	
Materials to avoid :	Reactive with oxidising agents, acids, alkalis and reducing agents.
10.6 Hazardous decomposition pro	ducts
Hazardous decomposition : products	May release COx, NOx, SOx, POx, H2S, KOx, SbOx, sulfides, alkyl mercaptans, diphenylamine, alkenes, asphyxiants, smoke and irritating vapours when heated to decomposition.
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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of : exposure	Eye contact Ingestion Inhalation Skin contact
Acute toxicity	
Product:	
Acute oral toxicity :	Remarks: No data available
Acute inhalation toxicity :	Remarks: No data available
Acute dermal toxicity :	Remarks: No data available
Skin corrosion/irritation	
Product:	
Remarks :	No data available
Serious eye damage/eye irritat	ion
Product:	
Remarks :	No data available
Respiratory or skin sensitisation	on
No data available	
Germ cell mutagenicity	
No data available	
Carcinogenicity	
No data available	
Reproductive toxicity	
No data available	
STOT - single exposure	
No data available	
STOT - repeated exposure	
No data available	



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SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The product should not be allowed to enter drains, water courses or the soil.
 Offer surplus and non-recyclable solutions to a licensed disposal company.
 Waste must be classified and labelled prior to recycling or disposal.

Send to a licensed waste management company.

Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14: Transport information

International Regulations



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IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks

: ADR: Not Regulated ADN: Not Regulated RID: Not Regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class (Germany)	:	WGK 2 obviously hazardous to water
The components of this pro	duo	ct are reported in the following inventories:
DSL	:	On the inventory, or in compliance with the inventory
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
IECSC	:	On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H412 :	Harmful to aquatic life with long lasting effects.
H413 :	May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage/eye irritation
Skin Sens.	:	Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;



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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

For Copy of SDS	: Internet: lubricants.petro-canada.com/sds Europe, telephone: 00-800-7387-6000 For Product Safety Information: 1 905-491-0565

Prepared by

: Product Safety: +1 905-491-0565

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