SAFETY DATA SHEET		
SUNPAR 2280		SPECIALTY PRODUCTS
000003009992		
Version 2.1	Revision Date 2023/03/29	Print Date 2023/03/29
SECTION 1. IDENTIFICATION		
Product name :	SUNPAR 2280	
Synonyms :	Product code: 100756	
Manufacturer or supplier's det Telephone :	HollyFrontier Specialty Products 1700 South Union Avenue Tulsa OK 74107 United States Customer Service: (800) 456-4786	
Emergency telephone number	·	
Emergency telephone : number	CHEMTREC: 1-800-424-9300; CCN: 9 Poison Control Centre: Consult local te emergency number(s).	
Recommended use of the che Recommended use :	Process Oil	
Prepared by :	Product Safety	
GHS classification in accordan 1910.1200) Not a hazardous substance or m GHS label elements Not a hazardous substance or m		ation Standard (29 CFR
Other hazards		
None known.		
IARC	No component of this product present a or equal to 0.1% is identified as probab confirmed human carcinogen by IARC.	le, possible or
OSHA	No component of this product present a equal to 0.1% is on OSHA's list of regu	
NTP	No component of this product present a equal to 0.1% is identified as a known of by NTP.	
SECTION 3. COMPOSITION/INFOR	MATION ON INGREDIENTS	

# Substance / Mixture:SubstanceSubstance name:Product code: 100756CAS-No.:64742-62-7

# **SUNPAR 2280**

### 000003009992

Version 2.1

Revision Date 2023/03/29

HOLLYFRONTIER SPECIALTY PRODUCTS AN HF SINCLAIR BRAND

Print Date 2023/03/29

# Components

Chemical name	CAS-No.	Concentration (% w/w)			
Residual oils (petroleum), solvent-	64742-62-7	100			
dewaxed; Baseoil — unspecified					
Actual concentration is withheld as a trade secret					

Actual concentration is withheld as a trade secret

## **SECTION 4. 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 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 physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	First aider needs to protect himself.
Notes to physician	:	Treat symptomatically.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	Do NOT use water jet.
Specific hazards during firefighting	:	Cool closed containers exposed to fire with water spray.
Hazardous combustion products	:	Carbon oxides (CO, CO2), smoke and irritating vapours as products of incomplete combustion.
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SUNPAR 2280**

## 000003009992

HOLLYFRONTIER SPECIALTY PRODUCTS AN HF SINCLAIR BRAND

Version 2.1

Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : protective equipment and emergency procedures	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.
Environmental precautions :	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for : containment and cleaning up	Prevent further leakage or spillage if safe to do so. 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.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	None known.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Use only with adequate ventilation. 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. Do not handle at temperatures >40°C, unless wearing appropriate protective equipment.
Conditions for safe storage	:	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.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

# **SUNPAR 2280**

## 000003009992

Version 2.1

## Revision Date 2023/03/29

Print Date 2023/03/29

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified	64742-62-7	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Engineering measures		fficient to control	nents. Good general worker exposure to a	
Personal protective equipme	nt			
Respiratory protection	ventilation is that exposur Respirator se exposure lev	provided or expo es are within reco election must be l	ess adequate local exposure assessment deported assessment deported exposure based on known or an of the product and the respirator.	monstrates guidelines. nticipated
Filter type	: organic vapo	our filter		
Hand protection Material	: neoprene, ni	trile, polyvinyl alc	ohol (PVA), Viton <sup>®</sup> .	
Remarks	approved sta	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.		
Eye protection	: Wear face-sl problems.	Wear face-shield and protective suit for abnormal processing problems.		
Skin and body protection	concentration	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.		
Protective measures	: Wash contar	ninated clothing b	pefore re-use.	
Hygiene measures	including the	inside, before re	ted clothing and glov -use. posed skin thoroughl	

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	dark
Odour	:	slight



# **SUNPAR 2280**

## 000003009992



: : :	No data available Not applicable <= -12 °C (<= 10 °F) 436 - 741 °C (817 - 1366 °F) >= 288 °C (>= 550 °F)
:	Not applicable <= -12 °C (<= 10 °F) 436 - 741 °C (817 - 1366 °F) >= 288 °C (>= 550 °F)
:	<= -12 °C (<= 10 °F) 436 - 741 °C (817 - 1366 °F) >= 288 °C (>= 550 °F)
:	436 - 741 °C (817 - 1366 °F) >= 288 °C (>= 550 °F)
:	>= 288 °C (>= 550 °F)
	Method: Cleveland open cup
:	No data available
:	No data available
:	Remarks: No data available
:	756 °F / 402 °C
:	No data available
:	No data available
:	< 0.000013 kPa (68 °F / 20 °C)
:	No data available
:	0.89 (61 °F / 16 °C)
:	No data available
:	insoluble
:	log Pow: 2 - 6
:	481 cSt (104 °F / 40 °C)
	31 cSt (212 °F / 100 °C)
	2582 sus (100 °F / 38 °C)
:	Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
:	690 g/mol

## SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No dangerous reaction known under conditions of normal use.

## **SUNPAR 2280**

## 000003009992



Version 2.1		Revision Date 2023/03/29	Print Date 2023/03/29
Chemical stability :		Stable under normal conditions.	
Possibility of hazardous : reactions	:	Hazardous polymerisation does not occ Stable under normal conditions.	cur.
Conditions to avoid :		Heat, flames and sparks.	
Incompatible materials :		Reactive with oxidising agents.	
Hazardous decomposition : products	:	Under normal conditions of storage and decomposition products should not be	-

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### 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

#### Components:

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:							
Acute oral toxicity		LD50 (Rat): > 5,000 mg/kg,					
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h					

Test atmosphere: dust/mist

Acute dermal toxicity	:	LD50 (Rabbit): > 3,000 mg/kg,
-----------------------	---	-------------------------------

## Skin corrosion/irritation

#### Product:

Remarks

: Non-irritating to the skin. Heated material can cause thermal burns.

#### Serious eye damage/eye irritation

#### Product:

Remarks	:	Non-irritating to the eyes. Heated material can cause thermal
		burns.

## Respiratory or skin sensitisation

# **SUNPAR 2280**

## 000003009992

Version 2.1

Revision Date 2023/03/29



Print Date 2023/03/29

<u>Product:</u> Exposure routes: Skin contact Species: Guinea pig Result: Not a skin sensitizer. Remarks: No evidence of skin sensitization.			
Germ cell mutagenicity			
<u>Product:</u> Genotoxicity in vitro	:	Remarks: Not considered to be a germ cell mutagen.	
Carcinogenicity			
Product:			
Remarks	:	The mineral oils in the product contain < 3% DMSO extract (IP 346). Not considered to be carcinogenic.	
Reproductive toxicity			
Product:			
Effects on fertility	:	Remarks: Not considered to be toxic to the reproductive system.	
Effects on foetal development	:	Remarks: Not considered to be teratogenic.	
STOT - single exposure			
Product:			
Remarks	:	Acute exposure studies show no evidence of systemic toxicity.	
STOT - repeated exposure			
Product:			
Remarks	:	Repeat dose toxicity data shows no evidence of target organ toxicity.	
Aspiration toxicity			
Product: Not expected to be an aspirat	tion	hazard.	
Further information			
Product:			
Remarks	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.	

## **SUNPAR 2280**

## 000003009992

Version 2.1



Print Date 2023/03/29

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
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
Components:		
Residual oils (petroleum), se	olve	ent-dewaxed; Baseoil — unspecified :
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): > 100 mg/l Exposure time: 72 h
Persistence and degradabili	ity	
Product:		
Biodegradability	:	Result: Inherently biodegradable.
Bioaccumulative potential		
No data available		
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Additional ecological information	:	This product has no known ecotoxicological effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Offer surplus and non-recyclable solutions to a licensed disposal company.</li> <li>Waste must be classified and labelled prior to recycling or disposal.</li> <li>Send to a licensed waste management company.</li> </ul>

# **SUNPAR 2280**

## 000003009992



000000002		
Version 2.1	Revision Date 2023/03/29	Print Date 2023/03/29
	Dispose of product residue in acc of the person responsible for was	

Contaminated packaging : Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

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

## **National Regulations**

**49 CFR** Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	: No SARA Hazards	
SARA 313	: This material does not contain any ch known CAS numbers that exceed the reporting levels established by SARA	threshold (De Minimis)
Clean Water Act		
Not applicable		
US State Regulations		
Massachusetts Right To Kr Residual oils (petro unspecified:	ow leum), solvent-dewaxed; Baseoil —	64742-62-7
Pennsylvania Right To Kno	w	
Residual oils (petro unspecified	leum), solvent-dewaxed; Baseoil —	64742-62-7
New Jersey Right To Know		
Residual oils (petro unspecified	oleum), solvent-dewaxed; Baseoil —	64742-62-7
New York City Hazardous S	ubstances	
Residual oils (petro unspecified	leum), solvent-dewaxed; Baseoil —	64742-62-7
		Page: 9

# **SUNPAR 2280**

HOLLYFRONTIER
SPECIALTY PRODUCTS
AN HF SINCLAIR BRAND

000003009992				
Version 2.1			Revision Date 2023/03/29	Print Date 2023/03/29
California Prop. 65			This product does not contain any of California to cause cancer, birth reproductive harm. For more inform www.P65Warnings.ca.gov.	defects, or any other
The components of the	s proc	duo	are reported in the following inv	entories:
TSCA		:	All chemical substances in this pro- TSCA Inventory or are in complian- exemption.	
AIIC		:	On the inventory, or in compliance	with the inventory
DSL		:	On the inventory, or in compliance	with the inventory
ENCS		:	On the inventory, or in compliance	with the inventory
KECI		:	On the inventory, or in compliance	with the inventory
PICCS		:	On the inventory, or in compliance	with the inventory
IECSC		:	On the inventory, or in compliance	with the inventory
NZIoC		:	On the inventory, or in compliance	with the inventory
EINECS		:	On the inventory, or in compliance	with the inventory
TCSI		:	On the inventory, or in compliance	with the inventory

## **SECTION 16. OTHER INFORMATION**

Further information

# **SUNPAR 2280**

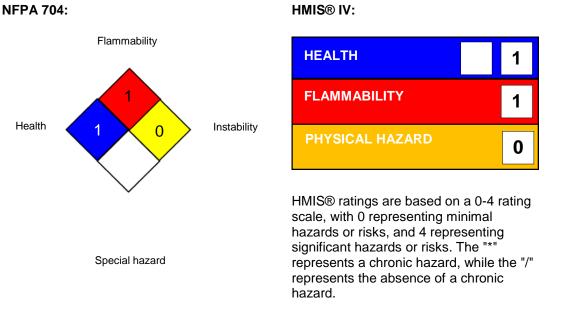
## 000003009992

HOLLY FRONTIER SPECIALTY PRODUCTS AN HF SINCLAIR BRAND

Version 2.1

## Revision Date 2023/03/29





### Full text of other abbreviations

ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0		USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA		8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response. Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect

## **SUNPAR 2280**

#### 000003009992

Version 2.1

#### Revision Date 2023/03/29

Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Prepared by	:	Product Safety
Revision Date Date format	-	2023/03/29 yyyy/mm/dd

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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.

US / EN



Print Date 2023/03/29