



1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name:	SUNPAR 150	SUNPAR 150C
	SUNPAR 160	
Manufacturer Information:	Holly Refining & Marketing – Tulsa 1700 South Union Ave. Tulsa, Oklahoma 74107	a, LLC
Marketer Information:	HollyFrontier Refining & Marketing 1700 South Union Tulsa, Oklahoma 74107	J LLC
Product Use:	Process Oil	
Emergency Phone Numbers:		

Chemtrec	(800) 424-9300
Holly Refining & Marketing – Tulsa, LLC	(918) 594-6000
FAX	(918) 594-6909

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
DISTILLATES (PETROLEUM) SOLVENT DEWAXED HEAVY PARAFFINIC	64742-65-0	100 - 100

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

CAS No. Governing Body	Exposure Limits
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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! May cause eye and skin irritation. Contains material that may cause target organ damage based on animal data. WARNING! Heated material may cause thermal burns.

Hazards Ratings:

Key: 0 = least, 1 =	slight, 2 = moder	ate, 3 = high, 4	= extreme	
·	Health	Fire	Reactivity	<u>PPI</u>
NFPA	1	1	0	
HMIS	1	1	0	Х

POTENTIAL HEALTH EFFECTS

PRE-EXISTING MEDICAL CONDITIONS

The following diseases or disorders may be aggravated by exposure to this product: SUNPAR 150 – SUNPAR 150C – SUNPAR 160 08/31/12 jdh Slightly irritating to eyes and skin.

INHALATION

No known significant effects or critical hazards.

LC50 (mg/l):	no data
LC50 (mg/m3):	no data
LC50 (ppm):	no data

SKIN

Practically non-toxic if absorbed through the skin. Substance may cause slight skin irritation. Contact with heated product may cause thermal burns.

Draize Skin Score: no data LD50 (mg/kg): no data Out of 8.0

• EYES

Slightly irritating to the eyes.

INGESTION

No known significant effects or critical hazards.

LD50 (g/kg): no data

4. FIRST AID MEASURES

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get medical attention if cough or other symptoms develop.

SKIN

Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse. For contact with heated product, flush immediately with plenty of cool water for at least 20 minutes.

• EYES

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. If eye irritation persists, obtain medical treatment. For contact with heated product, flush immediately with plenty of cool water for at least 20 minutes. Get medical attention.

INGESTION

Material is practically non-toxic. Induction of vomiting is not required. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray; Regular foam; Dry chemical; Carbon dioxide;

• FIRE FIGHTING INSTRUCTIONS

Wear structural firefighting gear. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point	265	240			°C	D92
Autoignition Temperature				No data	°F	D2155
Lower Explosion Limit				no data	%	N/A
Upper Explosion Limit				no data	%	N/A

FLAMMABLE PROPERTIES

6. ACCIDENTAL RELEASE MEASURES

Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

7. HANDLING AND STORAGE

HANDLING

Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE

NFPA class IIIB storage. Flash point is greater than 200 °F. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult with a health and safety professional for specific selections.

ENGINEERING CONTROLS

Ventilation is normally not required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION

EYE PROTECTION

Safety glasses with side shields or splash proof chemical goggles are recommended to protect against the splash of product.

GLOVES or HAND PROTECTION

Protective gloves are recommended when prolonged skin contact cannot be avoided. The gloves listed may provide protection against permeation: neoprene, nitrile, viton. Gloves of other chemically resistant materials may not provide adequate protection.

RESPIRATORY PROTECTION

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust / mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust / mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator SCBA.

OTHER

Where splashing is possible, fully chemical resistant protective clothing (e.g. acid suit) and boots are recommended for prolonged exposure. Wear insulated impervious protective gear to protect against the splash of product. The following materials are acceptable for use as protective clothing: polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane. Remove contaminated clothing and wash before reuse.

Physical Property	Typical	Units	Text Result	Reference	
Appearance	Clear amber fluid	N/A			
Boiling Range	733-1025	°F		D2887	
Bulk Density	7.3	lb/gal		D1250	
Pour Point	-13	°C		D97/D5950	
Molecular Weight	525	g/mole		D2502	
Octanol/Water Coefficient		N/A	no data		
рН		N/A	no data		
Specific Gravity	0.88		60/60F	D1298	
Solubility in Water	Nil	wt %			
Odor	slight	N/A			
Odor Threshold		ppm	no data		
Vapor Pressure	< 0.0001	mmHg	@ 100 °F		
Viscosity (F)	485 – 595	SUS	@ 100 °F	D2161	
Viscosity (C)	93 - 114	cSt	@ 40 °C	D445	

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

STABILITY
 Stable

% Volatile

 CONDITIONS TO AVOID Avoid excessive heat. Product will slowly oxidize and turn rancid if heated in open air for long periods of time..

wt %

- **INCOMPATIBILITY** Strong oxidizers.
- HAZARDOUS DECOMPOSITION PRODUCTS
 Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

Nil

HAZARDOUS POLYMERIZATION
 Will not polymerize under normal conditions.

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out.

D2369

Empty containers may retain some product residue. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

13. TRANSPORT INFORMATION

Governing Body	Mode	Proper Shipping	Name	
DOT	Ground	Petroleum Lubricating Oil		
Governing Body	Mode	Hazard Class	UN/NA No.	Label
DOT	Ground	N/A	N/A	Not Regulated
IATA/IMDG	Air	N/A	N/A	Not Regulated

14. REGULATORY INFORMATION

Regulatory List	Component	CAS No.	
Inventory - Australia (AICS)	All components listed	64742-65-0	
Inventory - Canada - Domestic Substances List	All components listed	64742-65-0	
Inventory - China	All components listed	64742-65-0	
Inventory - European EINECS Inventory	All components listed	64742-65-0	
Inventory - Japan - (ENCS)	All components listed	64742-65-0	
Inventory - Korea - Existing and Evaluated	All components listed	64742-65-0	
Inventory - Philippines Inventory (PICCS)	All components listed	64742-65-0	
Inventory - TSCA - Sect. 8(b) Inventory	All components listed	64742-65-0	

This product contains residual amounts of toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.

Title III Classifications Sections 311, 312:

- Acute: YES
- Chronic: NO
- Fire: NO
- Reactivity: NO
- Sudden Release of Pressure: NO

15. OTHER INFORMATION

Limits for the product- 5mg/m3, Oil Mist Limit, (OSHA PEL/ACGIH TLV)

WHMIS Classification: not controlled.

This product has a typical IP 346 tested value of 0.4 wt% and meets the requirements of FDA 21 CFR 178.3620(c).

The information and recommendations contained within this document are, to the best of Holly Refining & Marketing – Tulsa, LLC's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. We extend no warranties and make no representations as to the accuracy or completeness of the information contained herein and assume no responsibility regarding the suitability of this information for the users intended purpose or for the consequence of its use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use and to insure proper health, safety and other necessary information is followed.