

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: SUNPAR 107

Manufacturer Information:
 Holly Refining & Marketing . Tulsa, LLC
 1700 South Union Ave.
 Tulsa, Oklahoma 74107

Distributor Information:
 HollyFrontier Refining & Marketing LLC
 1700 South Union Ave.
 Tulsa, Oklahoma 74107

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 LIGHT PARAFFINIC	64742-56-9	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

Danger! Harmful or fatal if swallowed. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage. Heated material may cause injury.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPI</u>
NFPA	1	1	0	
HMIS	1	1	0	X

• POTENTIAL HEALTH EFFECTS

• PRE-EXISTING MEDICAL CONDITIONS

The following diseases or disorders may be aggravated by exposure to this product:
 Dermatitis, respiratory system disorders, lung disorders (asthma-like conditions).

- **INHALATION**

Excessive exposure to mists or vapors generated by heat may cause irritation to eyes, nose, throat, lungs and respiratory tract.

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

- **EYES**

Contact with product at elevated temperatures can result in thermal burns.

- **INGESTION**

Harmful or fatal if swallowed. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage.

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.

- **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**

Do not induce vomiting! Do not give liquids! Get medical attention immediately.

5. FIRE FIGHTING MEASURES

- **EXTINGUISHING MEDIA**

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

- **FIRE FIGHTING INSTRUCTIONS**

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

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point		345			°F	D92
Autoignition Temperature	650			estimated	°F	D2155

Lower Explosion Limit				no data	%	N/A
Upper Explosion Limit				no data	%	N/A

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**

Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

- **STORAGE**

NFPA class IIIB storage. Flash point is greater than 200 degrees F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult with a Health and Safety Professional for specific selections

- **ENGINEERING CONTROLS**

Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Mechanical ventilation recommended.

- **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 glove(s) listed below may provide protection against permeation. . Polyvinyl chloride (PVC); Neoprene; Nitrile; Polyvinyl alcohol; 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 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 with escape bottle or SCBA.

- **OTHER**

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyvinyl chloride (PVC); Neoprene; Nitrile; Viton; Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, respiratory protection may be necessary and wear appropriate protective clothing to avoid contact with material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Text Result	Reference
Appearance	Colorless oil	N/A		
Boiling Range	555-830	°F		D2887
Bulk Density	7.10	lb/gal		D1250
Pour Point	-18	°C		D97 / D5950
Molecular Weight	304	g/mole		D2502
Octanol/Water Coefficient		N/A	no data	
pH		N/A	no data	
Specific Gravity	0.85		60/60F	D1298
Solubility In Water	Nil	wt %		
Odor	Slight	N/A		
Odor Threshold		ppm	no data	
Vapor Pressure	0.0008	mmHg	@ 20 °C	
Viscosity (F)	65.5	SUS	@ 100 °F	D2161
Viscosity (C)	11.03	cSt	@ 40 °C	D445
% Volatile	4.2	wt %		D2369

10. STABILITY AND REACTIVITY

- **STABILITY**
Stable
- **CONDITIONS TO AVOID**
Avoid heat, sparks and open flame.
- **INCOMPATIBILITY**
Strong oxidizers
- **HAZARDOUS DECOMPOSITION PRODUCTS**
Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.
- **HAZARDOUS POLYMERIZATION**
Will not polymerize.

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. This material is not a RCRA hazardous waste, if not contaminated. If material has been "used", RCRA criteria (ignitability, reactivity, corrosivity and toxicity) must be determined. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>
DOT	Ground	Petroleum Lubricating Oil

<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>
DOT	Ground	N/A	N/A	Not Regulated

14. REGULATORY INFORMATION

<u>Regulatory List</u>	<u>Component</u>	<u>CAS No.</u>
Inventory - Australia (AICS)	All components listed	64742-56-9
Inventory - Canada - Domestic Substances List	All components listed	64742-56-9
Inventory - China	All components listed	64742-56-9
Inventory - European EINECS Inventory	All components listed	64742-56-9
Inventory - Japan - (ENCS)	All components listed	64742-56-9
Inventory - Korea - Existing and Evaluated	All components listed	64742-56-9
Inventory - Philippines Inventory (PICCS)	All components listed	64742-56-9
Inventory - TSCA - Sect. 8(b) Inventory	All components listed	64742-56-9

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.

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 users 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.