

## MATERIAL SAFETY DATA SHEET (MSDS) - EXXSOL D110 FLUID

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name** : **EXXSOL D110 FLUID**  
**Product Description** : Dearomatized Hydrocarbons  
**Intended Use** : Solvent

#### COMPANY IDENTIFICATION

**Supplier:** **Pon Pure Chemicals Group**  
CHENNAI, TAMILNADU, INDIA

**24 Hour Health Emergency** (91) 8939878447  
(91) 9444038694

**Transportation Emergency Phone** (91) 8939768680

Company Name	Place	EMERGENCY TELEPHONE NUMBER
Pon Pure Chemicals Group	India	Day Emergency - 044-26161803-26161809

### 2.COMPOSITION / INFORMATION ON INGREDIENTS

#### Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	100%

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

### 3. HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL PHYSICAL / CHEMICAL EFFECTS

Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Material can accumulate static charges which may cause an ignition.

#### POTENTIAL HEALTH EFFECTS

Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat, and lungs.

NFPA Hazard ID:	Health: 1	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 1	Flammability: 1	Reactivity: 0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

#### **4. FIRST AID MEASURES**

##### Inhalation

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

##### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

##### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

##### Ingestion

Seek immediate medical attention. Do not induce vomiting.

##### NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

#### **5. FIRE FIGHTING MEASURES**

##### EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

##### FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

##### FLAMMABILITY PROPERTIES

Flash Point [Method]: >105C (221F) [ASTM D-93]

Flammable Limits (Approximate volume % in air): LEL: 0.5 UEL: 4.8

Autoignition Temperature: 243°C (469°F)

## **6. ACCIDENTAL RELEASE MEASURES**

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## **7. HANDLING AND STORAGE**

### HANDLING

Avoid contact with skin. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures.

However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance.

Loading/Unloading Temperature : [Ambient]

Transport Temperature : [Ambient]

Transport Pressure : [Ambient]

Static Accumulator: This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

### STORAGE

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Storage Temperature : [Ambient]

Storage Pressure : [Ambient]

Suitable Containers/Packing : Tank Cars; Barges; Drums; Tank Trucks

Suitable Materials and Coatings (Chemical Compatibility): Stainless Steel; Teflon; Polyethylene; Carbon Steel; Polypropylene

Unsuitable Materials and Coatings: Polystyrene; Butyl Rubber; Natural Rubber; Ethylene-propylene-diene monomer (EPDM)

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Source	Form	Limit / Standard			NOTE	Source
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	Vapor.	RCP - TWA	1200 mg/m3	143 ppm	Total Hydrocarbons	ExxonMobil

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Chemical/oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

### GENERAL INFORMATION

Physical State	:	Liquid
Form	:	Clear
Color	:	Colorless
Odor	:	Mild Petroleum/Solvent
Odor Threshold	:	N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 C)	:	0.811
Density (at 15 °C)	:	809 kg/m <sup>3</sup> (6.75 lbs/gal, 0.81 kg/dm <sup>3</sup> )
Flash Point [Method]	:	>105C (221F) [ ASTM D-93]
Flammable Limits (Approximate volume % in air):		LEL: 0.5 UEL: 4.8
Auto ignition Temperature	:	243°C (469°F)
Boiling Point / Range	:	237C (459F) - 277C (531F)
Vapor Density (Air = 1)	:	6.9 at 101 kPa
Vapor Pressure	:	0.003 kPa (0.02 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1):		< 0.01
pH	:	N/A
Log Pow (n-Octanol/Water Partition Coefficient):		N/D
Solubility in Water	:	Negligible
Viscosity	:	2.54 cSt (2.54 mm <sup>2</sup> /sec) at 40 C   3.5 cSt (3.5 mm <sup>2</sup> /sec) at 25C
Oxidizing Properties	:	See Hazards Identification Section.

### OTHER INFORMATION

Freezing Point	:	N/D
Melting Point	:	N/D
Pour Point	:	-21°C (-6°F)
Molecular Weight	:	200
Coefficient of Thermal Expansion:		0.0007 V/VDEGC
Decomposition Temperature	:	N/D

## 10. STABILITY AND REACTIVITY

STABILITY	:	Material is stable under normal conditions.
CONDITIONS TO AVOID	:	Open flames and high energy ignition sources.
MATERIALS TO AVOID	:	Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION : Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
Inhalation	
Toxicity: Data available.	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: Data available.	Negligible hazard at ambient/normal handling temperatures. Based on test data for structurally similar materials.
Ingestion	
Toxicity: LD50 > 15000 mg/kg	Minimally Toxic. Based on test data for the material.
Skin	
Toxicity: LD50 > 3160 mg/kg	Minimally Toxic. Based on test data for the material.
Irritation: Data available.	Mildly irritating to skin with prolonged exposure. Based on test data for structurally similar materials.
Eye	
Irritation: Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

### CHRONIC/OTHER EFFECTS

#### For the product itself:

Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.

Prolonged and/or repeated skin contact with low viscosity materials may defeat the skin resulting in possible irritation and dermatitis.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

## 12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

### ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

### MOBILITY

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

### PERSISTENCE AND DEGRADABILITY

#### Biodegradation:

Material -- Expected to be readily biodegradable.

#### Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

#### Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

#### Atmospheric Oxidation:

Material -- Expected to degrade rapidly in air

## 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

### REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.



Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### 14. TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

#### 15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	17, 18, 19

#### --REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

## 16. OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:

- Section 04: First Aid Inhalation - Header was modified.
- Section 04: First Aid Ingestion - Header was modified.
- Section 06: Notification Procedures - Header was modified.
- Section 10 Stability and Reactivity - Header was modified.
- Section 13: Disposal Recommendations - Note was modified.
- Section 08: Personal Protection was modified.
- Section 08: Hand Protection was modified.
- Section 07: Handling and Storage - Handling was modified.
- Section 07: Handling and Storage - Storage Phrases was modified.
- Hazard Identification: Physical/Chemical Hazard was modified.
- Section 07: Loading/Unloading Temperature C(F) was modified.
- Section 07: Transport Temperature C(F) was modified.
- Section 07: Transport Pressure kPa was modified.
- Section 07: Storage Temperature C(F) was modified.
- Section 07: Storage Pressure kPa was modified.
- Section 07: Static Accumulator was modified.
- Section 07: Suitable Materials and Coatings - Header was modified.
- Section 05: Hazardous Combustion Products was modified.
- Section 06: Accidental Release - Spill Management - Water was modified.
- Section 09: Relative Density - Header was modified.
- Section 09: Viscosity was modified.
- Section 08: Hand Protection was modified.
- Section 08: Skin and Body Protection was modified.
- Section 14: Sea (IMDG) - Header was modified.
- Section 14: Air (IATA) - Header was modified.
- Section 14: LAND (TDG) - Header was modified.
- Section 14: LAND (DOT) - Header was modified.
- Section 15: List Citation Table - Header was modified.
- Section 14: LAND (DOT) - Default was modified.
- Section 14: LAND (TDG) Default was modified.
- Section 14: Sea (IMDG) - Default was modified.
- Section 14: Air (IATA) - Default was modified.
- Section 15: National Chemical Inventory Listing was modified.

Section 08: Exposure limits/standards was modified.

Section 15: OSHA Hazard Communication Standard was modified.

Hazard Identification: OSHA - May be Hazardous Statement was modified.

Section 06: Notification Procedures was modified.

Section 09: Flammable Limits - UEL was modified.

Section 09: Oxidizing Properties was modified.

Section 08: OEL Table - Notation Column - Header was modified.

Section 08: Exposure Limit Values - Header was modified.

Section 15: Chemical Name - Header was added.

Section 15: CAS Number - Header was added.

Section 15: List Citations - Header was added.

Section 15: List Citations Table was added.

Section 16: NA Contains was added.

Section 16: NA Contains - Header was added.

Section 01: Product Code - Header was deleted.

-----**Contains:** DISTILLATES (PETROLEUM), HYDROTREATED LIGHT-----

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**Disclaimer:**

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