



**MATERIAL  
SAFETY  
DATA SHEET**  
*Revised 11<sup>th</sup> June 2004*

## **TURPENTINE SUBSTITUTE**

### **SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY**

**Product/Material:** **TURPENTINE SUBSTITUTE**  
**Product Description:** **DISTILLATE/0035**  
**Applications:** Solvent  
**Chemical Family:** PETROLUEM  
**Supplier:** R.K. & J. Jones Limited  
**Address:** Southery Road, Feltwell  
Thetford, Norfolk, IP26 4EH, UK.  
**Telephone:** 01842 828101

### **SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENT NAME</b>	<b>EINECS</b>	<b>CAS No.</b>	<b>CONTENTS</b>	<b>HEALTH</b>	<b>RISK (R.No)</b>
DISTILLATE(PETROLEUM), HYDROTREATED LIGHT	265-149-8	64742-47-8	99-100ppm	Xn	65,66

*The full text for all R-Phrases are shown in section 16.*

**EU Index No.:** 649-404-00-4  
**CAS No.:** 8008-20-6  
**COMPOSITION COMMENTS:** Benzene may be present in trace amounts, but will always be below 0.1% w/w. Complex mixture of straight run distillates consisting of hydrocarbons mainly in the C9-C16 range.

### **SECTION 3: HAZARDS IDENTIFICATION**

Harmful: May cause lung damage if swallowed.  
Flammable  
Repeated exposure may cause skin dryness or cracking.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **SECTION 4: FIRST AID MEASURES**

**General:** Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped.  
**Inhalation:** If inhalation of vapour causes irritation or drowsiness remove to fresh air. Get medical advice if symptoms continue.  
**Skin Contact:** Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing. Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause short-term irritation, de-fatting of the, skin and could result in dermatitis.  
**Eye Contact:** Promptly wash eyes with lots of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.  
**Ingestion:** Immediately give plenty of water to drink. Do not induce vomiting because of the danger of aspiration. Harmless if swallowed in small amounts. Larger quantities may cause nausea and diarrhoea. If a large amount has been swallowed get medical advice.

## SECTION 5 : FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Foam, carbon dioxide (CO2), dry chemicals, sand, dolomite etc.
<b>Special Fire Fighting Procedures:</b>	Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.
<b>Unusual Fire &amp; Explosion Properties:</b>	Classified flammable.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions during spill:</b>	Repeated exposure can cause skin dryness and cracking. Wear suitable protective clothing. Ensure good ventilation. Avoid breathing vapour.
<b>Spill Clean Up Methods:</b>	May cause slippery surfaces. Treat any spillage as a fire hazard. Spray vapour or mist can be a potential fire or explosion hazard. Contain spillage. Do not wash spillage down drain. Absorb using absorbent clay, dry sand or suitable absorbent.

## SECTION 7 : HANDLING AND STORAGE

<b>Usage Precautions:</b>	Where prolonged or repeated exposure is likely. PROTECTIVE CLOTHING, should be worn including IMPERVIOUS GLOVES and EYE PROTECTION. Ensure good ventilation.
<b>Usage Precautions:</b>	Storage tanks must be positioned within a bunded area.
<b>Storage Precautions:</b>	Flammable/combustible. Keep away from oxidisers, heat and flames. Protect from light, including direct sunrays. Keep in cool, dry, ventilated storage and closed containers. Store at moderate temperatures in dry well ventilated area. Classified flammable.
<b>Conditions for Safe Storage:</b>	Flammable liquid storage

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS No.	STD	LT EXP (8 hrs)	ST EXP (15 min)
DISTILLATE(PETROLEUM), HYDROTREATED LIGHT	64742-47-8		1000mg/m3	



<b>Protective Equipment:</b>	
<b>Process Control Measures:</b>	Use engineering controls to reduce air contamination to permissible level. Provide eye wash station.
<b>Protective Gloves:</b>	Protective gloves must be used if there is a risk of direct contact or splash. Ensure gloves are manufactured/tested in accordance with BS EN 374. Determined penetration time carried out in accordance with EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time corresponding to 50% of the penetration time is recommended.
<b>Eye Protection:</b>	Wear approved chemical safety goggles where eye exposure is reasonably probable. Ensure safety glasses conform to EN 166.
<b>Other Protection:</b>	Provide eyewash, quick drench. Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygienic Work Routines:</b>	Promptly remove any clothing that becomes wet or contaminated. Isolate contaminated clothing and wash before use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Water white
<b>Odour:</b>	Kerosene
<b>Physical Data Comments:</b>	Surface Tension= 26.2mNm @ 40°C.
<b>Solubility Description:</b>	Slightly soluble in water.
<b>Boiling Point/Boiling Range(C):</b>	~140-300 @ 760mmHg
<b>Specific Gravity (Water=1):</b>	0.785-0.820 @ 15°C.
<b>Vapour Density (air=1):</b>	>5
<b>Vapour Pressure :</b>	<0.1kPa @ 20°C
<b>Evaporation Rate:</b>	0.01 (BuAc=1)
<b>Viscosity:</b>	15cSt @ 40°C
<b>Flash Point:</b>	>38°C
<b>Flash Point Method:</b>	CC(Closed Cup)
<b>Auto Ignition Temperature (°C)</b>	~240
<b>Flammability Limit (lower %):</b>	1
<b>Flammability Limit (upper %)</b>	6
<b>Partition Co Efficient (Water/Octanol):</b>	3>6

## SECTION 10 : STABILITY AND REACTIVITY

<b>Stability:</b>	Avoid heat, sparks, flames.
<b>Conditions to Avoid:</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may lead to the formation of a multiplicity, of compounds which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases including, carbon monoxide, may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>TOXIC DOSE1-LD50:</b>	5000.00 mg/kg (oral rat)
<b>TOXICOLOGICAL INFORMATION:</b>	ASPIRATION HAZARD - Do not leave vapour or spray. -May cause lung damage if material gets into lungs after accidental swallowing or vomiting of ingested material. Toxicity following a single exposure to high levels (oral, dermal, inhalation) is of a very low order. Prolonged and repeated contact may cause drying of the skin and possibly dermatitis. Prolonged inhalation of mists can cause lung, inflammation.
<b>SKIN:</b>	Vapour may cause irritation at high concentrations.

## SECTION 12 : ECOLOGICAL INFORMATION

<b>LC50 96 HRS Fish (mg/Kg):</b>	10
<b>Environmental Hazards:</b>	Can be expected to biodegrade slowly. Likely to harm aquatic life; films formed on water may effect oxygen transfer and damage organisms.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>General/Cleaning:</b>	Contaminated packages must be completely emptied before sending away for laundering and re-use.
<b>Disposal Methods:</b>	Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground run off to sewer, waterway or ground. These goods and packaging must be disposed of in accordance with the Special Waste Regulations 1996. EWC Number: Allocation of a waste code number in accordance with the European Waste catalogue, should be carried out in agreement with an EA authorised waste disposal company.
<b>Waste Class:</b>	Special Waste

## SECTION 14 : TRANSPORT INFORMATION



### LABEL FOR CONVEYANCE:

#### ROAD:

UN Number:	1223
Hazard Class (ADR):	Class 3: Flammable liquids
ADR Class No.:	3
ADR Packaging Group:	31c sup
HAZCHEM:	3Y
Proper Shipping Name I:	Kerosenes

#### RAIL:

#### SEA:

UN Sea:	1223
Sea Packing Group:	III
Sea Transport Class No.:	3.3

#### AIR:

UN Air:	1223
Air Packing Group:	III
Air Transport Class No.:	3

## SECTION 15 : REGULATORY INFORMATION

EEC (EINECS) No.: 232-366-4



### LABEL FOR SUPPLY:

<b>Risk Phrases:</b>	<b>R-10</b>	Flammable
	<b>R51-53</b>	Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.
	<b>R-65</b>	Harmful: may cause lung damage if swallowed.
	<b>R-66</b>	Repeated exposure may cause skin dryness or cracking.
<b>Safety Phrases:</b>	<b>S-2</b>	Keep out of reach of children.
	<b>S-24/25</b>	Avoid contact with skin and eyes.
	<b>S-43</b>	In case of fire use foam/dry powder/Co2- NEVER USE WATER.
	<b>S-61</b>	Avoid release into the environment. Refer to special instructions/Safety Data Sheets.
	<b>S-62</b>	If swallowed, do not induce vomiting, seek medical advice immediately and show the container or label.

## SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION

**User Notes:** For further Health & Safety information contact Health & Safety Officer. This Health & Safety Data Sheet has been issued with accordance with the Chemicals (hazard Information and Packaging Supply) (Amendment) Regulations 1992 (2). Since emptied containers retain product residue, follow label warning even after container is emptied. Residual vapour may explode on ignition; do not cut, drill, grind or weld on or near this container. Labels should not be removed from containers until they have been cleaned and no product remains within.

**Revision Comments:** Amendments to sections: Classification, Packaging and Labelling of Chemicals: CHIP 3 (2), Clarification of ingredient under Section 2.

**Disclaimer:**

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

**Note:** The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

*Our Ref: SBAN/DISTILLATE/JUN 04*