



# MATERIAL SAFETY DATA SHEET

Revision Date 09/06/2014

## PREMIUM PARAFFIN

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

#### 1.1. Product identifier

**Synonyms, Trade Names** Kerosine (petroleum), sweetened  
**REACH Registration Number** 01-2119502385-46-0014  
**CAS-No.** 91770-15-9  
**EC No.** 294-799-5

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** The following uses are addressed through the Chemical Safety Report (CSR) and Generic Exposure Scenario (GES) library: Manufacture of substance Use of substance as intermediate Formulation & (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Lubricants Use in metal working fluids / Rolling oils Use of release agents or binders Agrochemical uses Use as a fuel Use as a functional fluid Road and construction applications Explosive manufacture & use

**Uses Advised Against** This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above

#### 1.3. Details of the supplier of the safety data sheet

**Supplier:** R.K. & J. Jones Limited  
**Address:** Southery Road, Feltwell  
 Thetford, Norfolk, IP26 4EH, UK.  
**Telephone:** 01842 828101  
**Facsimile** 01842 828171  
**Emergency Telephone:** 01255 502372 SHE Department

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 3 - H226
Human health	Skin Irrit. 2 - H315; STOT SE 3 H336; Asp. Tox. 1 - H304
Environment	Aquatic Chronic 2 - H411

##### Classification (67/548/EEC)

Xn;R65. Xi;R38. N;R51/53. R10.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16

#### 2.2. Label elements

**EC No.** 294-799-5  
**Label In Accordance With (EC) No. 1272/2008**

**Signal Word**

Danger

**Hazard Statements**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P331	Do NOT induce vomiting.
P501a	Dispose of contents/container to a registered waste disposal company.

**Supplementary Precautionary Statements**

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray
P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on label).
P370+378	In case of fire: use foam, carbon dioxide, dry powder or water fog for extinction.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P332+313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to a registered waste disposal company.

**2.3. Other hazards**

Not Classified as PBT/vPvB by current EU criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances****REACH Registration Number** 01-2119502385-46-0014**CAS-No.** 91770-15-9**EC No.** 294-799-5**Composition Comments**

UVCB Substance

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

<b>General Information</b>	Remove affected person from source of contamination. General first aid, rest, warmth and fresh air. Place unconscious person on the side in the recovery position and ensure breathing can take place.
<b>Inhalation.</b>	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT INDUCE VOMITING! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious. Get medical attention immediately!
<b>Skin Contact</b>	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
<b>Eye Contact</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Inhalation.</b>	Vapours may cause drowsiness and dizziness.
<b>Ingestion</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
<b>Skin Contact</b>	Skin irritation.
<b>Eye Contact</b>	No specific symptoms noted.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat Symptomatically.

**SECTION 5 : FIRE FIGHTING MEASURES****5.1. Extinguishing media****Extinguishing Media** Stop flow of material to fire.  
Fire can be extinguished using:  
Foam. Carbon dioxide (CO2). Dry Powder or Water fog.**Unsuitable Extinguishing Media** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** During fire, Toxic gases (CO, CO<sub>2</sub>) are formed

**Unusual Fire & Explosion Hazards** FLAMMABLE.

**Specific Hazards** Closed containers can burst violently when heated, due to excess pressure build-up.

### 5.3. Advice for Fire-Fighters

**Special Fire Fighting Procedures** Avoid breathing fire vapours  
Use water to keep fire exposed containers cool and disperse vapours.  
Keep run-off water out of sewers and water sources. Dike for water control.

**Protective Measures In Fire** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Contain spillages with sand, earth or any suitable absorbent material.  
Do not discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk.  
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.  
Dam and absorb spillages with sand, earth or other non-combustible material.  
Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## **SECTION 7 : HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.  
Avoid forming spray/aerosol mists.  
Avoid inhalation of vapours and spray mists.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

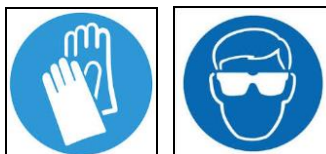
### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

**SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parametersDNEL

Consumer	Oral	Long Term	Systemic Effects	19mg/kg/day
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No PNEC available Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

8.2. Exposure controls**Protective Equipment**

<b>Process Conditions</b>	Provide eyewash station
<b>Engineering Measures</b>	Must not be handled in confined space without sufficient ventilation.
<b>Respiratory Equipment</b>	If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapours cartridge.
<b>Hand Protection</b>	The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. If repeated skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves, frequent change is advisable.
<b>Eye Protection</b>	Wear approved safety goggles.
<b>Other Protection</b>	Wear suitable protective clothing as protection against splashing or contamination.
<b>Hygiene Measures</b>	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA
<b>Environmental Exposure Controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduced emission to acceptable levels.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Slight odour
<b>Solubility</b>	Insoluble in water
<b>Initial Boiling Point And Boiling Range(°C)</b>	160-265°C 760 mm Hg
<b>Melting Point (°C)</b>	Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

<b>Relative Density</b>	0.775 @ 15°C Method: ISO 12185
<b>Vapour Pressure</b>	<1-3.7 kPa @ 37.8°C Method: EN 13016-1
<b>Viscosity</b>	1 - 2.5 cSt @ 40°C Method: ISO 3104

**Solubility Value (G/100G H2O@20°C)**

No information required.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Flash Point (°C)** 47°C CC (closed cup)

**Auto Ignition Temperature(°C)** >220°C

**Flammability Limit-Lower(%)** 0.6

**Flammability Limit-Upper(%)** 7.0

**Partition Coefficient (N-Octanol/water)**

No information required.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Explosive Properties**

Not explosive

According to Reach Annex V11 end point 7.11, the study does not need to be conducted if there are no chemical groups associated with explosive properties present in the molecule. This is the case for this substance.

**Oxidising Properties**

No Information required.

In accordance with column 2 of Reach Annex V11, the study does not need to be conducted because on the basis of its chemical structure, the substance is incapable of reacting exothermically with combustible materials.

9.2 Other Information**Particle size (Micron)**

Technically not feasible  
N/A.

In accordance with column 2 of REACH Annex V11, the particle size distribution study (granulometry) does not need to be conducted because the substance is not marketed or used in any solid or granular form.

**Mol. Weight**

ca. 182

**Volatility Description**

Emits vapours if heated

**SECTION 10 : STABILITY AND REACTIVITY**10.1 Reactivity

There are no known reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

**Hazardous polymerisation** Will not polymerise.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

**Materials to avoid** No incompatible groups noted.

10.6 Hazardous decomposition products

During fire, toxic gases (CO, Co2, ) are formed.

**SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects

**Acute toxicity (Oral LD50)** >5000 mg/kg Rat  
OECD 420  
Conclusive data but not sufficient for classification.

**Acute Toxicity (Dermal LD50)** >2000 mg/kg Rabbit  
OECD 402  
Conclusive data but not sufficient for classification.

**Acute Toxicity (Inhalation LC50)** >5.28 mg/l (vapours) Rat 4 hours  
OECD 403  
Conclusive data but not sufficient for classification.

**Skin Corrosion/Irritation – Erythema/Eschar Score** Moderate to severe erythema (3).  
**Oedema Score** Slight oedema – edges of area well defined by definite raising (2). EPA Guidelines. Irritating.

**Human Skin Model Test** Not available Non Corrosive to skin.

**Serious Eye Damage/Irritation** Not Irritating.

**Respiratory Sensitisation** No information required – this endpoint is not a REACH requirement. There is no evidence that the material can lead to respiratory hypersensitivity.

**Skin Sensitisation** Guinea pig. Buehler test: OECD 406  
Not Sensitising.

Germ Cell Mutagenicity**Genotoxicity - In Vitro**

Gene Mutation Method: ASTM E1687  
Negative  
This substance has no evidence of mutagenic properties

**Genotoxicity - In Vitro**

Chromosome aberration: Method: Guideline 475  
Negative  
This substance has no evidence of mutagenic properties.

Carcinogenicity

LOAEL 200 mg/kg Dermal  
Method equivalent to OECD 451  
Kerosine is not carcinogenic when animals are exposed via the oral or inhalation route. However, chronic skin contact with kerosines and jet fuel may lead to tumour formation as a consequence of repeated cycles of irritation, skin damage and repair (similar to OECD 451)

**Target Organs for Carcinogenicity** Skin

**Reproductive Toxicity**

<b>Reproductive Toxicity- Fertility</b>	Fertility: NOAEL>3000 mg/kg Oral Rat OECD Test Guideline 421 This substance has no evidence of toxicant reproduction.
<b>Reproductive Toxicity – Development</b>	Developmental toxicity: NOAEL 1000 mg/kg Oral Method OECD 414. This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity – repeated exposure</u></b>	
<b>STOT – Repeated Exposure</b>	NOAEL 750 mg/kg Oral Rat
<b>Inhalation</b>	No specific health warnings noted.
<b>Ingestion</b>	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin Contact</b>	No specific health warnings noted. Not a skin sensitizer.
<b>Eye Contact</b>	No specific health warnings noted.
<b>Medical Symptoms</b>	Skin irritation.

**SECTION 12 : ECOLOGICAL INFORMATION****Ecotoxicity:**

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

**12.1 Toxicity**

<b>Acute Toxicity – Fish</b> Trout)	LC50 96 hours 18 mg/l Onchorhynchus mykiss (Rainbow Trout) OECD 203
<b>Acute Toxicity – Aquatic Invertebrates</b>	EC50 48 hours 21 mg/l Daphnia magna OECD 202
<b>Acute Toxicity–Aquatic Plants</b>	EC50 72 hours 3.7 mg/l Selenastrum capricornutum OECD 201
<b>Acute Toxicity Micro-organisms</b>	72 hours 677.9 mg/l LL50 Tetrahymena pyriformis Estimated using PETROTOX computer model.
<b>Chronic Toxicity – Fish Early Life Stage</b>	28 days 0.089 mg/l Daphnia magna Onchorhynchus mykiss (Rainbow trout) NOEL Estimation using PETROTOX computer model
<b>Chronic Toxicity – Aquatic Invertebrates</b>	EC50 21 days 0.89 mg/l Daphnia magna OECD 211
<b>Acute Toxicity – Terrestrial</b>	Technically not feasible. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
<b>Toxicity – to soil:</b>	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.



**Toxicity to terrestrial plants:** Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

### 12.2 Persistence and degradability

**Phototransformation** No information required. This endpoint is not a REACH requirement

**Stability (Hydrolysis)**  
Scientifically unjustified

The available data and weight of evidence demonstrate that this substance is resistant to hydrolysis because it lacks a functional group that is hydrolytically reactive. Therefore, this fate process will not contribute to a measurable degradable loss of this substance from the environment.

**Biodegradation** Water Degradation (58.6%) 28 days  
Supporting study test – 301F Ready Biodegradability – Manometric Respiratory Test. Inherently biodegradable, not fulfilling specific criteria.

### 12.3 Bioaccumulative potential

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Partition Coefficient**  
No information required.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

### 12.4 Mobility in soil

**Mobility:** The product is insoluble in water and will spread on the water surface.

**Absorption/Desorption Coefficient**

No information required. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Henry's Law Constant**  
Not available

Volatilisation is dependant on Henry's Law constant (HLC) which is not applicable to complex substances.

**Surface Tension**  
Scientifically unjustified

In line with REACH Annex VII, data on surface tension is not required, as based on structural considerations, surface activity is not expected or predicted, and surface activity is not a desired property of the material.

### 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

### 12.6. Other adverse effects

None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **General Information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal sites in accordance with Local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

**Waste Class**

This material and container must be disposed of as a HAZARDOUS WASTE.

**SECTION 14 : TRANSPORT INFORMATION****14.1. UN number**

**UN No. (ADR/RID/ADN)** 1223  
**UN No. (IMDG)** 1223  
**UN No. (ICAO)** 1223

**14.2 UN Proper shipping name**

**Proper Shipping Name** KEROSENE

**14.3 Transport hazard class(es)**

**ADR/RID/ADN Class** 3  
**ADR/RID/ADN Class** Class 3: Flammable liquids.  
**ADR Label No.** 3  
**IMDG Class** 3  
**ICAO Class/Division** 3

**Transport Labels****14.4. Packing group**

**ADR/RID/ADN Packing group** III  
**IMDG Packing group** III  
**ICAO Packing group** III

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**

**EMS** F-E, S-E  
**Emergency Action Code** 3Y  
**Hazard No. (ADR)** 30  
**Hazard No. (ADR)** 30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or self heating liquid.  
**Tunnel Restriction Code** (D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15 : REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

### Statutory Instruments

Control of Substances Hazardous to Health.

### EU Legislation

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commissions Directives 91/155/EEC, 93/67/EC and 2000/21/EC, including amendments.

Regulations (EC) No 1272/2008 of the European Parliament and of 16 December 2008 on classification, labelling and packaging of substances and mixture, amending and repealing Directive 67/548/EEC, and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments

### 15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

## SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION

### Hazard Statements In Full

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects.

### 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.

AMENDED BY AC 17/12/2014

CHECKED BY FC 17/12/2014