

# SAFETY DATA SHEET

## WHITE SPIRIT

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	WHITE SPIRIT
Synonyms; trade names	VAR SOL 40, WHITE SPIRIT, MIRASOL HT, WHITE SPIRIT, ASOL WS (ESTISURF CC02), ASOL WS (NYRMO 40), ASOL WS (STATOIL), WHITE SPIRIT HT
REACH registration number	01-2119458049-33-XXXX
EC number	919-446-0

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

Identified uses Industrial Solvent For further information, see attached Exposure Scenario.

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

Supplier RYE OIL LTD  
HARBOUR ROAD  
RYE  
EAST SUSSEX  
TN31 7TE  
T 01797 223374  
F 01797 226991

#### 1.4. Emergency telephone number

Emergency telephone 01797 223374 OFFICE HOURS (8.00am TO 5.00pm)

### SECTION 2: Hazards identification

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

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

Physical hazards	Flam. Liq. 3 - H226
Health hazards	STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 2 - H411

#### 2.2. Label elements

EC number 919-446-0

##### Pictogram



Signal word

Danger

## HYDROCARBONS C9-12 N-ALKANES, ISOALKANES CYCLIC AROMATICS (2-25%)

<b>Hazard statements</b>	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapour/ spray. P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations. P403+P235 Store in a well-ventilated place. Keep cool.
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

Product is a static accumulator Vapours may form explosive mixtures with air. This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

<b>Product name</b>	
<b>REACH registration number</b>	01-2119458049-33-XXXX
<b>EC number</b>	919-446-0
<b>Composition comments</b>	The data shown are in accordance with the latest EC Directives.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention.
<b>Ingestion</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

<b>General information</b>	Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
<b>Inhalation</b>	May cause drowsiness or dizziness. Vapour may affect central nervous system. Headache. Nausea, vomiting.
<b>Ingestion</b>	May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.

## HYDROCARBONS C9-12 N-ALKANES, ISOALKANES CYCLIC AROMATICS (2-25%)

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, 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

Specific hazards The product is flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

Protective actions during firefighting Evacuate area. Water spray should be used to cool containers. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. If ventilation is inadequate, suitable respiratory protection must be worn. Provide adequate ventilation.

### 6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

Methods for cleaning up Eliminate all sources of ignition. Use only non-sparking tools. Use explosion-proof electrical equipment. Use water spray to reduce vapours. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours and contact with skin and eyes. Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Provide adequate ventilation.

Advice on general occupational hygiene When using do not eat, drink or smoke. Wash skin thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Ground/bond container and receiving equipment. Eliminate all sources of ignition. Avoid contact with strong oxidising agents.

**7.3. Specific end use(s)**

**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 parameters**

**DNEL**

- Industry - Dermal; : 44 mg/kg/day
- Industry - Inhalation; : 330 mg/kg/day
- Consumer - Dermal; : 26 mg/kg/day
- Consumer - Inhalation; : 71 mg/m<sup>3</sup>
- Consumer - Oral; : 26 mg/kg/day

**8.2. Exposure controls****Protective equipment**

**Appropriate engineering controls**

Use explosion-proof ventilating equipment. Avoid inhalation of vapours. Provide adequate ventilation.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear chemical splash goggles. EN 166

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should have a minimum thickness of 0.38 mm. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.

**Other skin and body protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**Hygiene measures**

Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Gas filter, type A EN 136/140/141/145/143/149

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

**Appearance** Clear liquid.

**Colour** Colourless to pale yellow.

**Odour** Pungent.

**Odour threshold** No information available.

<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	155 - 194°C
<b>Flash point</b>	43°C
<b>Evaporation rate</b>	0.2 (butyl acetate = 1)
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.7 % Upper flammable/explosive limit: 6.0 %
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	0.2 kPa @ 20°C
<b>Vapour density</b>	4.9 @ 101 kPa
<b>Relative density</b>	0.79 @ 15°C
<b>Bulk density</b>	790 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	: >4
<b>Auto-ignition temperature</b>	242°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	1.26 cSt @ 20°C 0.96 cSt @ 40°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### **9.2. Other information**

<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	143 g/mole
<b>Volatility</b>	No information available.
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
-------------------	---

### **10.2. Chemical stability**

<b>Stability</b>	Stable at normal ambient temperatures.
------------------	--

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions**      The product is flammable. Vapours may form explosive mixtures with air. Will not polymerise.

**10.4. Conditions to avoid**

**Conditions to avoid**      Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.

**10.5. Incompatible materials**

**Materials to avoid**      Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products**      Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)**      LD<sub>50</sub> >15000 mg/kg, Oral, Rat OECD 401

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)**      LD<sub>50</sub> >3400 mg/kg, Dermal, Rabbit OECD 402

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)**      LD<sub>50</sub> >13.1 mg/l, Inhalation, Rat OECD 403

**Skin corrosion/irritation**

**Animal data**      No information available.

**Serious eye damage/irritation**

**Serious eye damage/irritation**      No information available.

**Respiratory sensitisation**

**Respiratory sensitisation**      No information available.

**Skin sensitisation**

**Skin sensitisation**      Based on available data the classification criteria are not met. OECD 406

**Germ cell mutagenicity**

**Genotoxicity - in vitro**      Based on available data the classification criteria are not met.

**Carcinogenicity**

**Carcinogenicity**      Based on available data the classification criteria are not met.

**Reproductive toxicity**

**Reproductive toxicity - fertility**      Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**      May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**      Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

**Aspiration hazard**

**Aspiration hazard**      May be fatal if swallowed and enters airways.

Inhalation	May cause drowsiness or dizziness. Overexposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Vapours in high concentrations are anaesthetic.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause temporary eye irritation.

## SECTION 12: Ecological Information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10 - 30 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 10 - 22 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 4.6 - 10 mg/l, Algae

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.097 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** - 74.7%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** : >4

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

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

### 14.1. UN number

UN No. (ADR/RID)	1300
UN No. (IMDG)	1300
UN No. (ICAO)	1300
UN No. (ADN)	1300

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	TURPENTINE SUBSTITUTE
Proper shipping name (IMDG)	TURPENTINE SUBSTITUTE
Proper shipping name (ICAO)	TURPENTINE SUBSTITUTE
Proper shipping name (ADN)	TURPENTINE SUBSTITUTE

#### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN 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
ADR transport category	3
Emergency Action Code	3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)



**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk according to Not determined.

Annex II of MARPOL 73/78

and the IBC Code

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

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) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

This product may impact SEVESO storage regulations.

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**Inventories**

**Canada - DSL/NDSL**

All the ingredients are listed or exempt.

DSL

**US - TSCA**

All the ingredients are listed or exempt.

**Australia - AICS**

All the ingredients are listed or exempt.

**Japan - MITI**

All the ingredients are listed or exempt.

**Korea - KECI**

All the ingredients are listed or exempt.

**China - IECSC**

All the ingredients are listed or exempt.

**Philippines – PICCS**

All the ingredients are listed or exempt.

**Taiwan - NECI**

All the ingredients are listed or exempt.

**SECTION 16: Other information**

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>cATpE: Converted Acute Toxicity Point Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>DMEL: Derived Minimal Effect Level.</p> <p>EL50: Exposure Limit 50</p> <p>hPa: Hectopascal</p> <p>LL50: Lethal Loading fifty</p> <p>OECD: Organisation for Economic Co-operation and Development</p> <p>POW: Octanol-water partition coefficient</p> <p>SCBA: self-contained breathing apparatus</p> <p>STP: Sewage Treatment Plant</p> <p>VOC: Volatile Organic Compounds</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>Key literature references and sources for data</b>	Supplier's information.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	26/09/2018
<b>Version number</b>	4.001
<b>Supersedes date</b>	17/07/2018
<b>SDS number</b>	23045

**SDS status**

Approved.

**Hazard statements in full**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

**Signature**

JON REARDON

DATE 21.10.2020