



## SAFETY DATA SHEET

### 4 Trade White Spirit

According to Regulation (EC) No 1907/2006 Annex II as amended by Regulation (EU) 2015/830.

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

##### 1.1. Product identifier

Product name	4 Trade White Spirit
Internal identification	19920000
REACH registration number	01-2119458049-33-XXXX
REACH registration notes	The EC substance definition and related classification & labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 16 of this MSDS.
EC number	919-446-0

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

Identified uses	General degreasing solvent. Paint brush cleaner Paint thinner.
Uses advised against	Not to be used for cleaning skin as this may lead to skin disorders.

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

Supplier	Bartoline Limited Barmston Close Beverley East Yorkshire HU17 0LW 01482 678710 info@bartoline.co.uk
Contact person	HSE MANAGER

##### 1.4. Emergency telephone number

Emergency telephone	01482 678727 (0800-1700 Monday to Friday)
National emergency telephone number	National Poisons Information Service (24hours) 0844 892 0111

#### SECTION 2: Hazards identification

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

###### Classification

Physical hazards	Flam. Liq. 3 - H226
Health hazards	STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304 STOT SE 3 - H336
Environmental hazards	Aquatic Chronic 2 - H411
Human health	Prolonged skin contact may cause redness and irritation. Ingestion of even small quantities may be fatal. Vapours and spray/mists in high concentrations are narcotic. Prolonged contact causes serious eye and tissue damage.

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### Environmental

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### Physicochemical

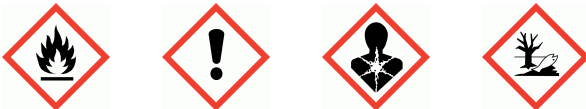
Vapours may form explosive mixtures with air. Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Containers can burst violently or explode when heated, due to excessive pressure build-up.

### 2.2. Label elements

#### EC number

919-446-0

#### Pictogram



#### Signal word

Danger

#### Hazard statements

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.

#### Precautionary statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapour/spray.  
P271 Use only outdoors or in a well-ventilated area.  
Wear rubber/PVC protective gloves and chemical safety glasses.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Immediately call a doctor/NHS 111.  
P331 Do NOT induce vomiting.  
Call a doctor/NHS 111 if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
Dispose of contents/container to hazardous waste collection point.

#### Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Contains

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %</b>		<b>100.0%</b>
CAS number: —	EC number: 919-446-0	REACH registration number: 01-2119458049-33-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304 STOT SE 3 - H336 Aquatic Chronic 2 - H411		

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

<b>Product name</b>	4 Trade White Spirit
<b>REACH registration number</b>	01-2119458049-33-XXXX
<b>REACH registration notes</b>	The EC substance definition and related classification & labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 16 of this MSDS.
<b>EC number</b>	919-446-0
<b>Composition comments</b>	A complex and variable combination of paraffinic, cyclic and aromatic hydrocarbons having a carbon number range predominantly of C9 to C12 and boiling in the range of approximately 135°C to 220°C. The aromatic content is between 2% and 25%.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
<b>Ingestion</b>	DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately! Provide rest, warmth and fresh air.
<b>Skin contact</b>	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

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

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<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. Irritation of the respiratory tract due to excessive fume, causes headache, drowsiness or other effects to the central nervous system, loss of consciousness.
<b>Ingestion</b>	If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Nausea, Vomiting, Abdominal pain.
<b>Skin contact</b>	Prolonged or repeated contact may cause irritation and dry skin.
<b>Eye contact</b>	Burning feeling and temporary redness.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
<b>Notes for the doctor</b>	Treat symptomatically.
<b>Specific treatments</b>	The most severe risk is through ingestion, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
<b>Hazardous combustion products</b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentrations.

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. Containers close to fire should be removed or cooled with water.
<b>Special protective equipment for firefighters</b>	In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Do not touch or walk into spilled material. Do not enter storage areas or confined spaces unless adequately ventilated. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take precautionary measures against static discharges. Take care as floors and other surfaces may become slippery.
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<b>For non-emergency personnel</b>	<p>Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in the immediate area). Stop leak if you can do so without risk. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Dam or absorb spillage with non-combustible material such as earth, sand or booms, pads or absorbent granules. Use clean non-sparking tools to collect absorbed material. Water Spill:</p> <p>Stop leak if you can do so without risk. Eliminate sources of ignition. Warn or evacuate occupants in surrounding and downwind areas if required, due to the toxicity or flammability of the material. If the flashpoint exceeds the ambient air temperature by 10 degrees C or more, use containment booms and remove from the surface by skimming or with suitable absorbents. If the flashpoint does not exceed the ambient air temperature by at least 10 degrees C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.</p>
<b>For emergency responders</b>	<p>Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards.</p> <p>For waste disposal, see section 13.</p>

### 6.2. Environmental precautions

<b>Environmental precautions</b>	<p>The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. The product is insoluble in water and will spread on the water surface. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.</p>
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	<p>Stop leak if safe to do so. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. To prevent release, place container with damaged side up. Cover large spillages with alcohol-resistant foam. Absorb spillage with non-combustible, absorbent material. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor.</p>
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	<p>For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.</p>
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	<p>Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Use explosion proof electric equipment. Storage tanks and other containers must be grounded. Wear full protective clothing for prolonged exposure and/or high concentrations. Contaminated clothing and shoes must be discarded. Contaminated rags and cloths must be put in fireproof containers for disposal. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid spilling and release to the environment such as drains and watercourses.</p>
<b>Advice on general occupational hygiene</b>	<p>Persons with impaired lung function should not handle this product.. Do not eat, drink or smoke when using this product. Provide shower facilities near the workplace. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse. Promptly remove any clothing that becomes wet or contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.</p>

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### 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. Keep container tightly sealed when not in use. Keep locked up and out of the reach of children. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with oxidising agents. Keep away from food, drink and animal feeding stuffs. Use containers made of the following materials: Carbon steel. Glass. Mild steel. Stainless steel. High-density polyethylene (HDPE) Polyethylene terephthalate (PET)

**Storage class**

Flammable liquid storage.

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### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2. FOR FURTHER INFORMATION REFER TO EXPOSURE SCENARIOS.

#### Usage description

In General:

Keep containers closed when not in use.

Keep containers upright.

Use only in well ventilated areas, ideally outdoors.

Open containers slowly in order to release any pressure build up that may occur.

Keep out of reach of children.

Apply "common sense" measures when using this product.

When using transfer required amount to a suitable container such as glass, metal PET or HDPE.

Avoid all contact with skin and eyes.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

**Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %**

Long-term exposure limit (8-hour TWA): 350 mg/m<sup>3</sup> vapour

#### Ingredient comments

The Workplace Exposure Limited quoted is an advisory level from the CEFIC-HSPA The figures quoted below are taken from the registration document and/or the substance manufacturers data sheet.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

#### DNEL

Industry/Professional - Dermal; Long term systemic effects: 44 mg/kg/day

Industry/Professional - Inhalation; Long term systemic effects: 330 mg/m<sup>3</sup>/8h

General population - Dermal; Long term systemic effects: 26 mg/kg/day

General population - Inhalation; Long term systemic effects: mg/m<sup>3</sup>/24h

General population - Oral; Long term systemic effects: mg/kg/day

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

This product is not to be used under conditions of poor ventilation. This product must not be handled in a confined space without adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation of vapours and spray/mists. Use explosion-proof electrical, ventilating and lighting equipment. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.

#### Personal protection

Protective engineering solutions should be implemented and in use before Personal Protective Equipment (PPE) is considered.

#### Eye/face protection

Wear EN 166 approved chemical safety goggles where eye exposure is reasonably probable.

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<b>Hand protection</b>	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. To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl chloride (PVC). Viton rubber (fluoro rubber). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear an apron and protective sleevelets made of the following material: Nitrile rubber. Polyvinyl chloride (PVC). Viton rubber (fluoro rubber). Wear anti-static protective clothing if there is a risk of ignition from static electricity.
<b>Hygiene measures</b>	Persons with impaired lung function should not handle this product.. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Wash hands thoroughly after handling. Wash promptly if skin becomes contaminated. Care should be taken to avoid contact with contaminants when removing contaminated clothing. Promptly remove any clothing that becomes wet or contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Change work clothing daily before leaving workplace. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate BS EN 405:2001+A1:2009 certified respirators. In the case of vapour formation use a respirator with filter model :. Type A. In case of vapours and aerosol formation:. Respirator with combination filter for vapour/particulate, Type A/P2. Warning ! filters have a limited use duration.
<b>Thermal hazards</b>	Not Applicable
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Colourless liquid.
<b>Colour</b>	Clear.
<b>Odour</b>	aromatic hydrocarbons
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	158 – 191 degrees C 316 – 376 degrees F



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Flash point	~ 40°C ISO 13736 ~ 104°F ISO 13736
Evaporation rate	~ 57 EtEt=1 DIN 53170
Evaporation factor	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 7 % Lower flammable/explosive limit: 0.7 %
Other flammability	Not applicable.
Vapour pressure	1.9 hPa @ 20°C
Vapour density	Not available.
Relative density	~ 0.785 @ 15°C
Bulk density	Not applicable.
Solubility(ies)	Substance is a UVCB. Standard tests for this endpoint are not appropriate.
Partition coefficient	Not available.
Auto-ignition temperature	>230°C/>446°F
Decomposition Temperature	Not available.
Viscosity	Kinematic viscosity $\leq 20.5 \text{ mm}^2/\text{s}$ . $0.95 \text{ mm}^2/\text{s}$ @ 40°C
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

### 9.2. Other information

Volatility	Volatile.
Volatile organic compound	This product contains a maximum VOC content of 785 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	The reactivity data for this product will be typical of those for the following class of materials: Hydrocarbons. There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

Stability	Stable under the prescribed storage conditions. See Section 10.3 (Possibility of hazardous reactions) for further information.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

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**Conditions to avoid** Containers can burst violently or explode when heated, due to excessive pressure build-up. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Avoid the accumulation of vapours in low or confined areas.

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with the following materials: Strong acids. Oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** The toxicity of this substance has been assessed during REACH registration. See information on individual substances below.

#### Germ cell mutagenicity

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

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

#### Toxicological information on ingredients.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Toxicological effects** The toxicity of this substance has been assessed during REACH registration.

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 15,000.0

**Species** Rat

**ATE oral (mg/kg)** 15,000.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,400.0

**Species** Rat

**ATE dermal (mg/kg)** 3,400.0

#### Skin corrosion/irritation

**Animal data** Conclusive data but not sufficient for classification. Not irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** This substance does not meet the EU criteria for classification. - Burning feeling and temporary redness.

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Vapours may cause drowsiness and dizziness.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Target organs</b>	Central nervous system
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	Vapours inhaled in strong concentrations have a narcotic effect on the central nervous system. Irritation of the respiratory tract due to excessive fume. Causes headache, drowsiness or other effects to the central nervous system, loss of consciousness.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Symptoms: Nausea, vomiting, abdominal pain. Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	Prolonged or repeated contact may dry skin and cause irritation. Frequent or prolonged skin contact destroys the lipid cutaneous layer and may cause dermatitis.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	This mixture does not meet the EU criteria for classification. Any eye contact may cause a burning feeling and temporary redness.
<b><u>Route of entry</u></b>	
<b>Route of entry</b>	Inhalation Ingestion Oral Skin and/or eye contact
<b><u>Target organs</u></b>	
<b>Target organs</b>	Central nervous system Eyes Skin Respiratory system, lungs
<b><u>Medical symptoms</u></b>	
<b>Medical symptoms</b>	Symptoms following overexposure to vapour may include the following: Central nervous system depression. Confusion, agitation and/or excitation.
<b><u>Medical considerations</u></b>	
<b>Medical considerations</b>	The following pre-existing or historic medical conditions of the worker may lead to an increased risk of adverse health effects following exposure to this product: Chronic respiratory and obstructive airway diseases. History of smoking. Pre-existing eye problems. Skin disorders and allergies.

### SECTION 12: Ecological Information

#### Ecological information on ingredients.

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### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

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

#### 12.1. Toxicity

**Toxicity** See information on ingredient substances below.

#### Ecological information on ingredients.

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: 10-30 mg/l, Onchorhynchus mykiss (Rainbow trout)

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

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 4.1 mg/l, Pseudokirchneriella subcapitata

**Chronic toxicity - fish early life stage** NOEC, 28 days: 0.13 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.28 mg/l, Daphnia magna

#### 12.2. Persistence and degradability

#### Ecological information on ingredients.

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Persistence and degradability** Readily biodegradable ( 75 % after 28 days).

#### 12.3. Bioaccumulative potential

**Partition coefficient** Not available.

#### Ecological information on ingredients.

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Bioaccumulative potential** Measured experimental data on hydrocarbon UVCB substances are not meaningful, since each of the constituents is likely to behave differently.

#### 12.4. Mobility in soil

**Mobility** Substance is a UVCB. Standard tests for this endpoint are not appropriate.

#### Ecological information on ingredients.

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Mobility** Substance is a UVCB. Standard tests for this endpoint are not appropriate.

#### 12.5. Results of PBT and vPvB assessment

#### Ecological information on ingredients.

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %

**Results of PBT and vPvB assessment** This substance is considered not to be PBT and vPvB.

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### 12.6. Other adverse effects

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

<b>General information</b>	The generation of waste should be minimised or avoided wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. External recovery, treatment, recycling and disposal of waste should comply with all applicable local and/or national regulations. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. This material and its container must be disposed of as hazardous waste. Waste packaging should be collected for reuse or recycling. The packaging must be empty (drop-free when inverted). When handling waste, the safety precautions applying to handling of the product should be considered.
<b>Disposal methods</b>	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. This material and its container must be disposed of as hazardous waste.
<b>Waste class</b>	<p>When this product, in its liquid state, as supplied becomes waste it should be disposed of as hazardous waste using the waste code 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances.</p> <p>Empty used containers should be disposed of as waste code 15 01 10 packaging containing residues of or contaminated by dangerous substances.</p> <p>When used the removed sludge should be disposed of using waste code 08 01 13 sludges from paint and varnish remover containing organic solvents or other dangerous substances.</p> <p>Any absorbents used for clearing up spills should be disposed of using waste code 15 02 02 absorbents contaminated by dangerous substances.</p>

#### SECTION 14: Transport information

<b>General</b>	Limited quantity size 5 litres (LQ 7) Excepted Quantity size 30ml (E1)
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##### 14.1. UN number

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

##### 14.2. UN proper shipping name

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

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

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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 MARPOL73/78 and the IBC Code

## SECTION 15: Regulatory information

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

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### National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended).  
 Dangerous Substances and Explosive Atmospheres Regulations 2002.  
 EH40/2005 Workplace exposure limits.  
 Health and Safety at Work etc. Act 1974 (as amended).  
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
 Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

### EU legislation

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.  
 Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).  
 Dangerous Substances Directive 67/548/EEC.  
 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).  
 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).

### Guidance

CHIP for everyone HSG228.  
 Introduction to Local Exhaust Ventilation HS(G)37.  
 The spraying of flammable liquids HSG178.  
 Workplace Exposure Limits EH40.

### Health and environmental listings

Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

### Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

### Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

### Inventories

#### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

**Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 100 %**

#### Canada - DSL/NDL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

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### 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.

### New Zealand - NZIOC

All the ingredients are listed or exempt.

## SECTION 16: Other information

### General information

The European Inventory of Existing Commercial Substances (EINECS) descriptions and numbers have been used historically to identify chemical substances. EINECS descriptions exist for a number of hydrocarbon substances derived from petroleum refining and chemical conversion. In the past this substances was identified by CAS 64742-82-1 but this description was overly broad as solvents have narrower hydrocarbon ranges. different classifications and different processing. A more focused and narrow definition was therefore required. REACH requires a clear and logical substance description and substance identification is a key component in registration. In order to facilitate appropriate registration of hydrocarbon solvents the Hydrocarbon Solvents Producers Association (HSPA) has conducted an in-depth assessment of hydrocarbon solvents in order to better characterize its substances and adopt a consistent substance identification system. This means that although the product has not changed (just how is described) there may be some difference as to what is displayed on the product labels as they were compiled using the old system.

### Training advice

The information on directions for use can be found on the product label. It is important to ensure that anyone using this product in the workplace has been adequately trained and in particular: The use of personal protective equipment, methods of cleaning up and disposal of waste. The basic first aid arrangements.

### Revision comments

DUE TO CHANGE OF CLASSIFICATION DATABASE THE REVISION NUMBERING HAS BEEN RESET. You should therefore look at the revision date rather than the revision number to ensure you have the most up to date version. NOTE: Lines within the margin indicate significant changes from the previous revision.

### Issued by

HS&E Manager.

### Revision date

09/03/2015

### Revision

2

### SDS number

4755

### SDS status

Approved.



## 4 Trade White Spirit

**Risk phrases in full**

R10 Flammable.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R66 Repeated exposure may cause skin dryness or cracking.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

**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.

The information contained in this data sheet is provided in accordance with the requirements of the Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP). The product should not be used for purposes other than those shown in Section 1.2. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present knowledge and the current EU and UK Legislation. It provides guidance on health, safety and environmental aspects of the product and should not be taken as a product specification.