



## SAFETY DATA SHEET

### Terralus SB 46

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

##### 1.1. Product identifier

**Product name** Terralus SB 46

**Product number** 7574

**Internal identification** GHS21605

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

**Identified uses** Biodegradable Hydraulic Oil For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Morris Lubricants  
 Castle Foregate  
 Shrewsbury  
 Shropshire  
 SY1 2EL  
 +44 (0) 1743 232200  
 +44 (0) 1743 353584  
 sds@morris-lubricants.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** +44(0)1743 232200 (08.45 - 17.00 GMT)

#### SECTION 2: Hazards identification

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

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

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

Classification (67/548/EEC or 1999/45/EC) -

##### 2.2. Label elements

**Hazard statements** NC Not Classified

**Supplemental label information** EUH210 Safety data sheet available on request.

##### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

## Terralus SB 46

<b>Trimethylolpropane Trioleate</b>		<b>30-60%</b>
CAS number: 57675-44-2	EC number: 260-895-0	REACH registration number: 01-2119496071-40-XXXX
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>Isooctadecanoic acid, reaction products with tetraethylenepentamine</b>		<b>&lt;1%</b>
CAS number: 68784-17-8	EC number: 272-225-4	REACH registration number: 01-2119960832-33-0000
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36/38.	
<b>Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>		<b>&lt;1%</b>
CAS number: 64742-46-7	EC number: 919-029-3	REACH registration number: 01-2119457735-29-XXXX
<b>Classification</b> Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>Diphenylamine</b>		<b>&lt;1%</b>
CAS number: 122-39-4	EC number: 204-539-4	REACH registration number: 01-2119488966-13-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> T;R23/24/25. N;R50/53. R33.	

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

**Composition comments**      The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Get medical attention if any discomfort continues. Do not induce vomiting.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.

## Terralus SB 46

**Eye contact** 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 promptly if symptoms occur after washing.

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

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

**Specific hazards** Heat from fire could result in drums bursting

### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

**Environmental precautions** Contain spillage with sand or earth. Avoid the spillage or runoff entering drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.

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

**Methods for cleaning up** Contain spillage with sand or earth. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

### 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.

**Storage class** Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

## Terralus SB 46

### Diphenylamine

Short-term exposure limit (15-minute): WEL 20 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Bis(nonylphenyl)amine (CAS: 36878-20-3)

<b>DNEL</b>	<p>Industry - Dermal; Long term systemic effects: 0.62 mg/kg</p> <p>Industry - Inhalation; Long term systemic effects: 4.37 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 0.31 mg/kg</p> <p>Consumer - Inhalation; Long term systemic effects: 1.09 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 0.31 mg/kg</p>
<b>PNEC</b>	<p>- marine water; 0.01 mg/l</p> <p>- Sediment (Freshwater); 132000 mg/kg</p> <p>- Sediment (Marinewater); 13200 mg/kg</p> <p>- Soil; 263000 mg/kg</p> <p>- Fresh water; 0.1 mg/l</p>

#### Diphenylamine (CAS: 122-39-4)

<b>DNEL</b>	<p>Workers - Dermal; Long term systemic effects: 0.62 mg/kg</p> <p>Workers - Inhalation; Long term systemic effects: 4.37 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 0.31 mg/kg</p> <p>Consumer - Inhalation; Long term systemic effects: 1.09 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 0.31 mg/kg</p>
<b>PNEC</b>	<p>- Fresh water; 0.051 mg/l</p> <p>- marine water; 0.0051 mg/l</p> <p>- Intermittent release; 0.51 mg/l</p> <p>- Sediment (Freshwater); 9320 mg/kg</p> <p>- Sediment (Marinewater); 932 mg/kg</p> <p>- Soil; 1860 mg/kg</p> <p>- STP; 1 mg/l</p>

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

#### Hand protection

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.

#### Other skin and body protection

Use barrier creams to prevent skin contact.

#### Hygiene measures

Wash promptly with soap and water if skin becomes contaminated.

## Terralus SB 46

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Light (or pale). Straw.
<b>Odour</b>	Characteristic.
<b>Melting point</b>	-54°C Pour point
<b>Initial boiling point and range</b>	>320°C @
<b>Flash point</b>	228°C Pensky-Martens closed cup.
<b>Vapour pressure</b>	<0.1 kPa @ °C
<b>Vapour density</b>	>1
<b>Relative density</b>	0.919 @ 15.6°C
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Organic solvents.
<b>Auto-ignition temperature</b>	Not determined°C
<b>Viscosity</b>	47 cSt @ 40°C

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Acids. Oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>General information</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Inhalation</b>	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.

## Terralus SB 46

<b>Eye contact</b>	May cause temporary eye irritation.
<b>Acute and chronic health hazards</b>	Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

#### 12.4. Mobility in soil

**Mobility** The product is non-volatile. The product is insoluble in water and will spread on the water surface.

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

#### 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

**Waste class** European Waste Catalogue (EWC) code: 13 01 12 (readily biodegradable hydraulic oils)

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**Road transport notes** Not classified.

**Rail transport notes** Not classified.

**Sea transport notes** Not classified.

**Air transport notes** Not classified.

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

#### 14.4. Packing group

## Terralus SB 46

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

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

**Transport in bulk according to** Not applicable.

**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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	22/01/2020
<b>Revision</b>	4
<b>Supersedes date</b>	16/12/2015
<b>SDS number</b>	21605
<b>Hazard statements in full</b>	H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.