



## SAFETY DATA SHEET

### Terrain CT30

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

##### 1.1. Product identifier

Product name                      Terrain CT30

Product number                    7293

Internal identification              GHS21531

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

Identified uses                      Transmission and Hydraulic oil

Uses advised against              Non specified unless otherwise stated within this MSDS

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

Supplier                              Morris Lubricants  
     Castle Foregate  
     Shrewsbury  
     SY1 2EL

    08.45 - 17.00 GMT  
     T: (+44)(0)1743 232200  
     F: (+44)(0)1743 353584  
     sds@morris-lubricants.co.uk

##### 1.4. Emergency telephone number

#### SECTION 2: Hazards identification

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

###### Classification

Physical hazards                    Not Classified

Health hazards                      Eye Irrit. 2 - H319

Environmental hazards              Not Classified

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

##### 2.2. Label elements

###### Pictogram



Signal word                          Warning

Hazard statements                  H319 Causes serious eye irritation.

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**Precautionary statements** P264 Wash contaminated skin thoroughly after handling.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

**Contains** Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts, Calcium branched chain alkyl phenate sulphide

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>Distillates, hydrotreated heavy paraffinic</b>	<b>60-100%</b>
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0014
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-
<b>Distillates,hydrotreated heavy paraffinic</b>	<b>10-30%</b>
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0014
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Asp. Tox. 1 - H304	-
<b>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</b>	<b>1-5%</b>
CAS number: 68649-42-3	EC number: 272-028-3
	REACH registration number: 01-2119657973-23-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R41. N;R51/53.
Eye Dam. 1 - H318	
Aquatic Chronic 2 - H411	
<b>Calcium branched chain alkyl phenate sulphide</b>	<b>1-5%</b>
CAS number: —	EC number: 291-829-9
	REACH registration number: 01-2119524004-56-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Aquatic Chronic 4 - H413	R53.

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<b>Branched alkylphenol and Calcium branched alkylphenol</b>	<b>&lt;1%</b>
CAS number: 74499-35-7	
M factor (Chronic) = 1	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 1B - H360F Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> Repr. Cat. 3;R60. Xi;R36/38. N;R50/53.
<b>Propylene Pentamer</b>	<b>&lt;1%</b>
CAS number: 15220-87-8	
<b>Classification</b> Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. Xi;R38. N;R51/53.

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>	Move affected person to fresh air at once. Rinse nose and mouth with water. 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 affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

#### 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. 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**      Toxic gases or vapours. 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**      Use air-supplied respirator, gloves and protective goggles.

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### SECTION 6: Accidental release measures

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

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

#### 6.2. Environmental precautions

**Environmental precautions** Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 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. Keep only in the original container.

**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

##### Distillates, hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

##### Distillates,hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5

Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

##### Propylene Pentamer

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

#### 8.2. Exposure controls

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### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

Wear chemical splash goggles.

### 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 should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact. Use of suitable barrier/afterwork creams to protect skin may be beneficial.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid.
Colour	Amber.
Odour	Characteristic. Oil-like.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	-36°C Pour point
Initial boiling point and range	>320°C @ 101.3 kPa
Flash point	217°C PMCC (Pensky-Martens closed cup).
Other flammability	Product is not flammable but on excessive heating may become combustible.
Vapour pressure	<0.1 kPa @ 20°C
Vapour density	>1
Relative density	0.880 @ 15.6°C
Solubility(ies)	The product is insoluble in water. Soluble in the following materials: Organic solvents.
Partition coefficient	Not determined. log Kow: > 7 The above figure is typical of mineral oil.
Auto-ignition temperature	>320°C
Viscosity	86.75 cSt @ 40°C

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<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Volatile organic compound</b>	The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOC's may be present.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> .
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## 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>	May cause discomfort if swallowed.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Causes serious 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

<b>Ecotoxicity</b>	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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### 12.1. Toxicity

### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	The product is expected to be biodegradable.
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### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined. log Kow: > 7 The above figure is typical of mineral oil.

### 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) = 13 01 13\*

## SECTION 14: Transport information

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

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation** Dangerous Substances Directive 67/548/EEC.  
Dangerous Preparations Directive 1999/45/EC.

**Guidance** Workplace Exposure Limits EH40.  
CHIP for everyone HSG228.  
Approved Classification and Labelling Guide (Sixth edition) L131.  
Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

## SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 06/11/2015

**Revision** 1

## Terrain CT30

<b>SDS number</b>	21531
<b>Hazard statements in full</b>	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360F May damage fertility if swallowed. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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.