



## SAFETY DATA SHEET

### Transformer Oil

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

##### 1.1. Product identifier

|                         |                 |
|-------------------------|-----------------|
| Product name            | Transformer Oil |
| Product number          | 7851            |
| Internal identification | GHS22014        |

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

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Identified uses      | Oil filled transformers and other electrical equipment |
| Uses advised against | No specific uses advised against are identified.       |

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

|          |                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Morris Lubricants<br>Castle Foregate<br>Shrewsbury<br>Shropshire<br>SY1 2EL<br>+44 (0) 1743 232200<br>+44 (0) 1743 353584<br>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        | Asp. Tox. 1 - H304 |
| Environmental hazards | Not Classified     |

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

##### 2.2. Label elements

###### Hazard pictograms



|                   |                                                    |
|-------------------|----------------------------------------------------|
| Signal word       | Danger                                             |
| Hazard statements | H304 May be fatal if swallowed and enters airways. |

## Transformer Oil

**Precautionary statements** P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 P501a Dispose of contents/container to hazardous or special waste collection point.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                                                          |                                                  |
|--------------------------------------------------------------------------|--------------------------------------------------|
| <b>Distillates (petroleum), hydrotreated light naphthenic</b>            | <b>60-100%</b>                                   |
| CAS number: 64742-53-6                                                   | EC number: 265-156-6                             |
|                                                                          | REACH registration number: 01-2119480375-34-XXXX |
| <b>Classification</b>                                                    | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Asp. Tox. 1 - H304                                                       | -                                                |
| <b>Distillate (petroleum), hydrotreated light paraffinic</b>             | <b>10-30%</b>                                    |
| CAS number: 64742-55-8                                                   | EC number: 265-158-7                             |
|                                                                          | REACH registration number: 01-2119487077-29-XXXX |
| <b>Classification</b>                                                    | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Asp. Tox. 1 - H304                                                       | -                                                |
| <b>Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based</b> | <b>10-30%</b>                                    |
| CAS number: 72623-86-0                                                   | EC number: 276-737-9                             |
|                                                                          | REACH registration number: 01-2119474878-16-XXXX |
| <b>Classification</b>                                                    | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Asp. Tox. 1 - H304                                                       | -                                                |
| <b>Distillates (petroleum), solvent-refined heavy naphthenic</b>         | <b>1-5%</b>                                      |
| CAS number: 64741-96-4                                                   | EC number: 265-097-6                             |
|                                                                          | REACH registration number: 01-2119483621-38-XXXX |
| <b>Classification</b>                                                    |                                                  |
| Asp. Tox. 1 - H304                                                       |                                                  |

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

**Composition comments** The highly refined mineral oils contain <3% (w/w) DMSO-extract, according to IP346

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information** Get medical attention if any discomfort continues.

**Inhalation** 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.

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|                     |                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>    | Get medical attention if any discomfort continues. Do not induce vomiting. Product contains petroleum based material, which, if aspirated into the lungs may result in chemical pneumonia.                |
| <b>Skin contact</b> | Remove contaminated clothing immediately and wash skin with soap and water.                                                                                                                               |
| <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 promptly if symptoms occur after washing. |

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

|                            |                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | If aspiration into the lungs is suspected, eg when vomiting, admit to hospital immediately.                                                                                                                              |
| <b>Inhalation</b>          | Upper respiratory irritation.                                                                                                                                                                                            |
| <b>Ingestion</b>           | May cause discomfort if swallowed. The product contains mineral oil, which if aspirated into the lungs through vomiting after ingestion, may result in chemical pneumonia. May be fatal if swallowed and enters airways. |
| <b>Skin contact</b>        | Prolonged contact may cause redness, irritation and dry skin.                                                                                                                                                            |
| <b>Eye contact</b>         | Irritation of eyes and mucous membranes.                                                                                                                                                                                 |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Extinguish with 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>              | Heat from fire could result in drums bursting                                                                                                                                                                                        |
| <b>Hazardous combustion products</b> | Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic gases some of which may be toxic. |

### 5.3. Advice for firefighters

|                                                      |                                                                                    |
|------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Protective actions during firefighting</b>        | Control run-off water by containing and keeping it out of sewers and watercourses. |
| <b>Special protective equipment for firefighters</b> | Wear self-contained breathing apparatus.                                           |

## SECTION 6: Accidental release measures

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

|                             |                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces. |
|-----------------------------|----------------------------------------------------------------------------------------------------|

### 6.2. Environmental precautions

|                                  |                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | 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

## Transformer Oil

**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

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. 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.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

### 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)

**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

#### Occupational exposure limits

**Distillates (petroleum), hydrotreated light naphthenic**

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

**Distillate (petroleum), hydrotreated light paraffinic**

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

**Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based**

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

ACGIH = American Conference of Governmental Industrial Hygienists.

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

**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.

## Transformer Oil

|                                        |                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection</b>                 | 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. |
| <b>Other skin and body protection</b>  | Use barrier creams to prevent skin contact.                                                                                                                                   |
| <b>Hygiene measures</b>                | Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated.                           |
| <b>Respiratory protection</b>          | No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.                           |
| <b>Thermal hazards</b>                 | Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.                                           |
| <b>Environmental exposure controls</b> | Do not allow product to contaminate land.                                                                                                                                     |

### SECTION 9: Physical and chemical properties

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

|                                                     |                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>                                   | Liquid.                                                                                                                         |
| <b>Colour</b>                                       | Light yellow                                                                                                                    |
| <b>Odour</b>                                        | Odourless. Light Paraffinic                                                                                                     |
| <b>Odour threshold</b>                              | Not determined.                                                                                                                 |
| <b>pH</b>                                           | Not applicable.                                                                                                                 |
| <b>Melting point</b>                                | -52°C                                                                                                                           |
| <b>Initial boiling point and range</b>              | >320°C @ 101.3 kPa                                                                                                              |
| <b>Flash point</b>                                  | 148°C Pensky-Martens closed cup.                                                                                                |
| <b>Upper/lower flammability or explosive limits</b> | Not known.                                                                                                                      |
| <b>Other flammability</b>                           | Product is not flammable but on excessive heating may become combustible.                                                       |
| <b>Vapour density</b>                               | Not determined.                                                                                                                 |
| <b>Relative density</b>                             | 0.887 @ 20°C                                                                                                                    |
| <b>Solubility(ies)</b>                              | Insoluble in water. Soluble in the following materials: Organic solvents.                                                       |
| <b>Partition coefficient</b>                        | Not determined.                                                                                                                 |
| <b>Auto-ignition temperature</b>                    | Not determined.                                                                                                                 |
| <b>Decomposition Temperature</b>                    | Not determined.                                                                                                                 |
| <b>Viscosity</b>                                    | 9.2 cSt @ 40°C                                                                                                                  |
| <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

## Transformer Oil

**Volatile organic compound** 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 VOCs may be present.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Unlikely to occur under normal conditions of use.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

#### 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

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Not expected to be highly toxic based on information of ingredients.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Not expected to be highly toxic based on information of ingredients.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.

##### Serious eye damage/irritation

**Serious eye damage/irritation** May cause mild, short lasting discomfort to eyes.

##### Respiratory sensitisation

**Respiratory sensitisation** No evidence to suggest the product will be a respiratory sensitiser.

##### Skin sensitisation

**Skin sensitisation** Not expected to be a skin sensitizer based on information on components.

##### Reproductive toxicity

**Reproductive toxicity - fertility** No data available to suggest the product will cause reproductive toxicity.

##### Aspiration hazard

**Aspiration hazard** Kinematic viscosity <= 20.5 cSt @ 40 C Aspiration hazard if swallowed.

##### **General information**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## Transformer Oil

|                                         |                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                       | High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.                                                                                                                                                                                      |
| <b>Ingestion</b>                        | Swallowing significant quantities may cause discomfort, nausea, diarrhoea and irritation of the digestive tract. Aspiration into the lungs (e.g. through vomiting) after ingestion can be hazardous with possible resultant chemically induced pneumonia. May be fatal if swallowed and enters airways. |
| <b>Skin contact</b>                     | Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.                                                                                                                                                                                        |
| <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

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Biological oxygen demand** Not determined.

**Chemical oxygen demand** Not determined.

#### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil

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

**Henry's law constant** Not determined.

#### 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** None known.

### 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) number = 13 08 99\* (waste not otherwise specified)

### 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

## Transformer Oil

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

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).<br>The Pollution Prevention and Control Act 1999.<br>Special Waste regulations 1996.<br>Control of Pollution (Oil Storage) (England) Regulations 2001<br>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).                                                                                                                                                                               |
| <b>EU legislation</b>       | Dangerous Preparations Directive 1999/45/EC.<br>Dangerous Substances Directive 67/548/EEC.<br>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).<br>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). |
| <b>Guidance</b>             | Workplace Exposure Limits EH40.<br>Safety Data Sheets for Substances and Preparations.                                                                                                                                                                                                                                                                                                                                                                                                       |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.



## Transformer Oil

### US - TSCA

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

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| <b>Revision comments</b>         | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| <b>Revision date</b>             | 29/04/2021                                                                             |
| <b>Revision</b>                  | 3                                                                                      |
| <b>Supersedes date</b>           | 28/06/2017                                                                             |
| <b>SDS number</b>                | 22014                                                                                  |
| <b>Risk phrases in full</b>      | Not classified.                                                                        |
| <b>Hazard statements in full</b> | H304 May be fatal if swallowed and enters airways.                                     |

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.