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

1.1. Product identifier

Name of the substance: HyGold 100
Identification number: 649-466-00-2 (Index number)
Registration number: 01-2119467170-45
Synonyms: None.
Issue date: 14-June-2011
Version number: 12
Revision date: 05-November-2018
Supersedes date: 19-July-2018

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

Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet

MANUFACTURER: Ergon Refining, Inc.
2611 Haining Rd
Vicksburg, Mississippi 39181

International Distributor: Ergon International, Inc.
Drève Richelle 161 Building C
B-1410 Waterloo, Belgium

Emergency Contacts:
Ergon Refining, Inc.: + 1.601.638.4960 Normal Business Hours
Chemtrec: + 1.800.424.9300 After Business Hours (North America)
+ 1.703.527.3887 (International)

E-mail Address: sds@ergon.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary: Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms: None.
Signal word: Not applicable.
Hazard statements: Not applicable.

Precautionary statements
Prevention: Not available.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Supplemental label information: None.

2.3. Other hazards: None known.

SECTION 3: Composition/information on ingredients

3.1. Substances
### General information

**Chemical name:** Distillates (petroleum), hydrotreated heavy naphthenic

**Classification:** -

<table>
<thead>
<tr>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>%</td>
</tr>
<tr>
<td>649-465-00-7</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
</tr>
<tr>
<td>265-155-0</td>
<td>CAS-No. / EC No.</td>
</tr>
<tr>
<td>01-2119467170-45</td>
<td>REACH Registration No.</td>
</tr>
<tr>
<td>649-465-00-7</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

#### General information

Contact physician if discomfort continues.

#### 4.1. Description of first aid measures

**Inhalation**

Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.

**Skin contact**

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention.

**Eye contact**

Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion**

Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control centre immediately.

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

Defatting of the skin.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### General fire hazards

No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB.

#### 5.1. Extinguishing media

- **Suitable extinguishing media**
  - Halon. Dry chemicals. Foam. Carbon dioxide (CO2). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.
- **Unsuitable extinguishing media**
  - Do not use water jet as an extinguisher, as this will spread the fire.

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

No unusual fire or explosion hazards noted.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Special fire fighting procedures**

Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use pressurised air mask if product is involved in a fire.

### SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**For emergency responders**

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.
Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands after handling and before eating. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

7.2. Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

### Occupational exposure limits

<table>
<thead>
<tr>
<th>Czech Republic. OELs. Government Decree 361</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>Ceiling</td>
<td></td>
<td>1000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)</td>
<td>Ceiling</td>
<td>1000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Denmark. Exposure Limit Values</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TLV</td>
<td></td>
<td>1 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hungary. OELs. Joint Decree on Chemical Safety of Workplaces</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>Ceiling</td>
<td></td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Iceland. OELs. Regulation 154/1999 on occupational exposure limits</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TWA</td>
<td></td>
<td>1 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ireland. Occupational Exposure Limits</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TWA</td>
<td></td>
<td>5 mg/m³</td>
<td>Inhalable fraction.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Italy. Occupational Exposure Limits</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TWA</td>
<td></td>
<td>5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Netherlands. OELs (binding)</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TWA</td>
<td></td>
<td>5 mg/m³</td>
<td>Mist.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Norway. Administrative Norms for Contaminants in the Workplace</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>TLV</td>
<td></td>
<td>1 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Material name: HyGold 100

4729   Version #: 12   Revision date: 05-November-2018   Issue date: 14-June-2011
Material: HyGold 100

### Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td>Aerosol</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Aerosol</td>
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</table>

### Spain. Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

### Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyGold 100</td>
<td>STEL</td>
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<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

#### Biological limit values
No biological exposure limits noted for the ingredient(s).

#### Recommended monitoring procedures
Not available.

#### Derived no effect levels (DNELs)
Not available.

#### Predicted no effect concentrations (PNECs)
Not available.

### 8.2. Exposure controls
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### Individual protection measures, such as personal protective equipment

- **General information**: Not available.
- **Eye/face protection**: Goggles/face shield are recommended.
- **Skin protection**:
  - **Hand protection**: Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable.
  - **Other**: Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.
- **Respiratory protection**: Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN14387.

#### Thermal hazards
Not available.

#### Hygiene measures
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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

#### Appearance
Clear & bright

#### Physical state
Liquid.

#### Form
Liquid.

#### Colour
Amber

#### Odour
Mild Petroleum Odor

#### Odour threshold
Not available.

#### pH
Not available.

---

**Material name:** HyGold 100  
**SDS EU 4729**  
**Revision #: 12**  
**Revision date: 05-November-2018**  
**Issue date: 14-June-2011**
Melting point/freezing point -48,89 °C (-56 °F) ASTM D5949/ ISO 3016
Initial boiling point and boiling range > 315,56 °C (> 600 °F) ASTM D2887/ ISO 3294
Flash point 162,0 °C (323,6 °F) Pensky-Martens Closed Cup ASTM D93
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits
Flammability limit - lower (%) Not available.
Flammability limit - upper (%) Not available.
Vapour pressure Not available.
Vapour density Not available.
Relative density 0,91
Relative density temperature 15,6 °C (60,08 °F) ASTM D4052/ ISO 12185
Solubility(ies)
Solubility (water) Not available.
Partition coefficient (n-octanol/water) Not established.
Auto-ignition temperature > 315,56 °C (> 600 °F) ASTM E659
Decomposition temperature Not available.
Viscosity 21 cSt
Viscosity temperature 40 °C (104 °F) ASTM D445/ ISO 3104
Explosive properties Not available.
Oxidising properties No relevant additional information available.

SECTION 10: Stability and reactivity
10.1. Reactivity Strong oxidising agents.
10.2. Chemical stability Stable.
10.3. Possibility of hazardous reactions Hazardous polymerisation does not occur.
10.4. Conditions to avoid Avoid temperatures exceeding the flash point.
10.5. Incompatible materials Strong oxidising agents.
10.6. Hazardous decomposition products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information
General information Not available.
Information on likely routes of exposure
Inhalation May be harmful if inhaled. However, this product does not currently meet the criteria for classification.
Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact May be irritating to eyes.
Ingestion May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration.

Symptoms Not available.
11.1. Information on toxicological effects
Acute toxicity Not classified.
Skin corrosion/irritation Not classified. May cause defatting of the skin, but is neither an irritant nor a sensitizer.
Serious eye damage/eye irritation Not classified.
Respiratory sensitisation Not classified.
Skin sensitisation Not classified.
Germ cell mutagenicity Non-mutagenic based on Modified Ames Assay.
Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Hungary. 26/2000 EuM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity

Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Mixture versus substance information

Not available.

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Not expected to be harmful to aquatic organisms.

12.2. Persistence and degradability

Not inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Partition coefficient n-octanol/water (log Kow)

Not established.

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

EU waste code

Not applicable. Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

General information

Not regulated as dangerous goods.
SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
  Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
  Not listed.

Other EU regulations

- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Not listed.

Other regulations

- Germany: WGK 1
  This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

- No Chemical Safety Assessment has been carried out.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Country(s) or region  | Inventory name                              | On inventory (yes/no)*
---                  | ---                                         | ---
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations
Not available.

References
ACGIH
IARC Monographs. Overall Evaluation of Carcinogenicity
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Chemical Abstracts Service Registry Handbook
CRC: Handbook of Chemistry and Physics
ILO Safety Cards
International Labour Organization
International Maritime Organization Marine Pollutants List
NFPA Hazardous Chemical Data Sheets
NIOSH Pocket Guide
Registry of Toxic Effects of Chemical Substances (RTECS)
US DOT Hazardous Materials Regulations

Information on evaluation method leading to the classification of mixture
Not available.

Full text of any H-statements not written out in full under Sections 2 to 15
None.

Revision information
This document has undergone significant changes and should be reviewed in its entirety.

Training information
Not available.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Further information
Local CHEMTREC Numbers:
CHEMTREC China: 4001-204937
CHEMTREC EU (Brussels): +(32)-28083237
CHEMTREC Indonesia: 001-803-017-9114
CHEMTREC Malaysia: +(60)-327884561
CHEMTREC Mexico: 1-800-681-9531
CHEMTREC Singapore: +(65)-31581349