

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 11-August-2011
Version number 04
Revision date 29-March-2016
Supersedes date 12-August-2014

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

Identified uses Metalworking Fluids, Industrial Lubricants, Grease Manufacturing, Hydraulic Oils, Gear Oils, Heavy Duty Engine Oil, Bar & Chain, Carriers & Diluents, Engine Oil.
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
EU Contact: sds@ergon.com
Drève Richelle 161 Building C
B-1410 Waterloo, Belgium

Emergency Phone Numbers:

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)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended**Health hazards**

Aspiration hazard Category 1 H304 - May be fatal if swallowed and enters airways.

Hazard summary

Physical hazards Not classified for physical hazards.
Health hazards Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards Not classified for hazards to the environment.
Specific hazards Harmful by inhalation. Do not breathe dust/fume/gas/mist/vapors/spray.
Main symptoms Respiratory disorder.

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

Contains: Distillates (petroleum), hydrotreated heavy naphthenic

Hazard pictograms

Signal word Danger

Hazard statements

H304

May be fatal if swallowed and enters airways.

Precautionary statements**Prevention**

P281

Do not breathe gas/mist/vapours/spray.
Use personal protective equipment as required.**Response**

P301 + P310

P308 + P313

P331

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
IF exposed or concerned: Get medical advice/attention.
Do NOT induce vomiting.**Storage**

P405

Store locked up.

Disposal

P501

See section 13 of this SDS for disposal instructions.
Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.**Supplemental label information**

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.1. Substances****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic	100	64742-52-5 265-155-0	01-2119467170-45	649-465-00-7	
Classification:					
DSD:	-				L
CLP:	Asp. Tox. 1;H304				

Composition comments

A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30. It produces finished oil with a viscosity of less than 100 SUS @ 100°F.

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.

6.3. Methods and material for containment and cleaning up

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/vapors/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

Belgium. Exposure Limit Values.

Material	Type	Value	Form
HyGold 100	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Material	Type	Value
HyGold 100	TWA	5 mg/m3

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³

Czech Republic. OELs. Government Decree 361

Material	Type	Value
HyGold 100	Ceiling	1000 mg/m ³
	TWA	200 mg/m ³

Components	Type	Value
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1000 mg/m ³
	TWA	200 mg/m ³

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3

Material	Type	Value	Form
HyGold 100	TLV	1 mg/m ³	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TLV	1 mg/m ³	Mist.

Greece. OELs (Decree No. 90/1999, as amended)

Material	Type	Value	Form
HyGold 100	TWA	5 mg/m ³	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Material	Type	Value	Form
HyGold 100	Ceiling	5 mg/m ³	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	5 mg/m ³	Mist.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Material	Type	Value	Form
HyGold 100	TWA	1 mg/m ³	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	1 mg/m ³	Mist.

Ireland. Occupational Exposure Limits

Material	Type	Value	Form
HyGold 100	TWA	5 mg/m ³	Inhalable fraction.

Italy. Occupational Exposure Limits

Material	Type	Value	Form
HyGold 100	TWA	5 mg/m ³	Inhalable fraction.

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Material	Type	Value	Form
HyGold 100	STEL	3 mg/m ³	Fume and mist.
	TWA	1 mg/m ³	Fume and mist.

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	3 mg/m ³	Fume and mist.
	TWA	1 mg/m ³	Fume and mist.

Netherlands. OELs (binding)

Material	Type	Value	Form
HyGold 100	TWA	5 mg/m ³	Mist.
Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Material	Type	Value	Form
HyGold 100	TLV	1 mg/m ³	Mist.
Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TLV	1 mg/m ³	Mist.

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Material	Type	Value	Form
HyGold 100	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol
Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

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

Material	Type	Value	Form
HyGold 100	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol
Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value	Form
HyGold 100	STEL	10 mg/m ³	
	TWA	5 mg/m ³	
Components	Type	Value	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	
	TWA	5 mg/m ³	

Spain. Occupational Exposure Limits

Material	Type	Value	Form
HyGold 100	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Spain. Occupational Exposure Limits Components

	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Sweden. Occupational Exposure Limit Values Material

	Type	Value	Form
HyGold 100	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Components Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Type STEL	Value 3 mg/m3	Form Mist.
	TWA	1 mg/m3	Mist.

Biological limit values No biological exposure limits noted for the ingredient(s).**Recommended monitoring procedures** Not available.**Derived no-effect level (DNEL)** Not available.**Predicted no effect concentrations (PNECs)** Not available.**8.2. Exposure controls****Appropriate engineering 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.

Environmental exposure controls

Not available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Clear & bright
Physical state	Liquid.
Form	Liquid.
Colour	Water White to Pale
Odour	Mild Petroleum Odor

Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	< -30 ASTM D5950/ ISO 3016
Initial boiling point and boiling range	> 254,44 °C (> 490 °F) ASTM D2887/ ISO 3294
Flash point	>= 162,8 °C (>= 325,0 °F) Cleveland open cup ASTM D92/ ISO 2592
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	Not available.
Relative density temperature	15,56 °C (60 °F) ASTM D4052/ ISO 12185
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not established.
Auto-ignition temperature	> 315,56 °C (> 600 °F) ASTM E659
Decomposition temperature	Not available.
Viscosity	20 cSt (40 °C (104 °F) ASTM D445/ ISO 3104)
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	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	
Ingestion	May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. May be fatal if swallowed and enters airways.
Inhalation	May be fatal if swallowed and enters airways.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	May be irritating to eyes.
Symptoms	Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.
11.1. Information on toxicological effects	
Acute toxicity	Not classified.
Skin corrosion/irritation	Not classified. May be irritating to the skin.
Serious eye damage/eye irritation	Not classified. May cause minor irritation on eye contact.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified. May cause defatting of the skin, but is not an irritant.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Nota L - Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.
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	May be fatal if swallowed and enters airways.
Mixture versus substance information	Not applicable.
Other information	Risk of chemical pneumonia after aspiration.

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 applicable.
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	When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. 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

General	Not regulated as dangerous goods.
ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

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 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Germany: WGK 1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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).

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 statements or R-phrases and H-statements under Sections 2 to 15 H304 May be fatal if swallowed and enters airways.

Revision information
Product and Company Identification: Product and Company Identification
SECTION 8: Exposure controls/personal protection: Respiratory protection
SECTION 8: Exposure controls/personal protection: - Hand protection
Physical & Chemical Properties: Multiple Properties

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.