SAFETY DATA SHEET

E. Ergon Refining, Inc.

1. Identification

Product identifier HyGold MVI 150BS

Other means of identification Not available.

Recommended use Metalworking Fluids, Industrial Lubricants, Grease Manufacturing, Hydraulic Oils, Gear Oils, Heavy

Duty Engine Oil, Bar & Chain, Carriers & Diluents, Engine Oil.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer:Ergon RefiningAddress:2611 Haining Rd

Vicksburg, Mississippi 39183

Contact Name: Will Poe
Telephone: 1.601.630.8319
E-mail: will.poe@ergon.com

Emergency Contacts

Ergon Refining: 1.601.638.4960 Normal Business Hours

Chemtrec: 1.800.424.9300 After Business Hours (North America Only)

1.703.527.3887 After Business Hours (International)

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word

Hazard statement
Prevention
Response
Storage
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Hazard(s) not otherwise

classified (HNOC)

See section 11 of the SDS for additional information on health hazards.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
RESIDUAL OILS (PETROLEUM), HYDROTREATED		64742-57-0	75 - 95
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC		64742-52-5	5 - 25

Composition comments A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in

the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C20 through C50 and boiling above 400 °C and produces a finished oil with viscosity

near 3500 SUS at 100°F.

4. First-aid measures

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

advice/attention.

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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 center immediately.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

Treat symptomatically.

Defatting of the skin.

treatment needed
General information

Contact physician if discomfort continues.

5. Fire-fighting measures

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 a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for

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

firefighters
Fire-fighting

equipment/instructions

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 pressurized air mask if product is involved in a

fire.

General fire hazards

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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. Ensure adequate ventilation.

Methods and materials 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 or absorbent material then 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.

Environmental precautions

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. 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.

7. Handling and storage

Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	Form
HyGold MVI 150BS (CAS Mixture)	PEL	5 mg/m3	Mist.

Material name: HyGold MVI 150BS

Components	Туре	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
RESIDUAL OILS (PETROLEUM), HYDROTREATED (CAS 64742-57-0)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit Val Material	ues Type	Value	Form
HyGold MVI 150BS (CAS Mixture)	TWA	5 mg/m3	Inhalable fraction.
Components	Туре	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
RESIDUAL ÓILS (PETROLEUM), HYDROTREATED (CAS 64742-57-0)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Ch Material	emical Hazards Type	Value	Form
HyGold MVI 150BS (CAS Mixture)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Components	Туре	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
•	TWA	5 mg/m3	Mist.
RESIDUAL OILS (PETROLEUM), HYDROTREATED (CAS 64742-57-0)	STEL	10 mg/m3	Mist.
· · · · · · · · · · · · · · · · · · ·	TWA	5 mg/m3	Mist.

Biological limit values

Appropriate engineering

controls

Adequate ventilation should be provided whenever the material is heated or mists are generated. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles/face shield are recommended.

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style **Hand protection**

gloves.

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

No biological exposure limits noted for the ingredient(s).

concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not available.

General hygiene considerations

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.

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9. Physical and chemical properties

Appearance Clear & bright

Physical state Liquid.
Form Liquid.

ColorYellow to Amber.OdorMild Petroleum Odor

Odor threshold Not available. pH Not available.

Melting point/freezing point < 45 °F (< 7.22 °C) ASTM D 5949/ ISO 3016 Initial boiling point and > 700 °F (> 371.11 °C) ASTM D 2887/ ISO 3294

boiling range

Flash point >= 510.0 °F (>= 265.6 °C) Cleveland Open Cup ASTM D 92/ ISO 2592

Evaporation rateNot available. **Flammability (solid, gas)**Not available. **Upper/lower flammability or explosive limits**

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressure Not available.

Vapor density 1

Relative density 0.91 (60 °F (15.56 °C) ASTM D 4052/ ISO 12185)

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not established.

(n-octanol/water)

Auto-ignition temperature > 599 °F (> 315 °C) ASTM E 659

Decomposition temperature Not available.

Viscosity 640 cSt (104 °F (40 °C) ASTM D 445/ ISO 3104)

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may

increase risk of product aspiration.

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.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Material name: HyGold MVI 150BS sps us

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 or skin sensitization

Respiratory sensitization Not classified. Skin sensitization 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity

Not classified

- single exposure

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard Not classified.

Chronic effects Prolonged or repeated contact may cause drying, cracking, or irritation of the skin.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential

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

Mobility in soil

Not available.

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.

13. Disposal considerations

Disposal instructions 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.

Hazardous waste code

Waste from residues / unused products

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

ground.

Not applicable.

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.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Material name: HyGold MVI 150BS SDS US 5 / 7

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulationsThis product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as

carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Inventory name

Not regulated

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region

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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
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).

16. Other information, including date of preparation or last revision

Issue date 06-18-2014

Version # 01

Material name: HyGold MVI 150BS

On inventory (ves/no)*

References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

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

US DOT Hazardous Materials Regulations

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.

Revision Information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

HazReg Data: International Inventories

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