

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

| | |
|---|---------------------|
| Trade name or designation of the mixture | HyVolt-PowerOil 60U |
| Registration number | 01-2119480375-34 |
| Synonyms | None. |
| Issue date | 03-November-2015 |
| Version number | 03 |
| Revision date | 08-March-2016 |
| Supersedes date | 07-January-2016 |

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

| | |
|-----------------------------|-----------------|
| Identified uses | Transformer 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****Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

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.

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 light naphthenic, DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC, DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC, DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC, Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based, LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED |
|------------------|---|

Hazard pictograms

| | |
|--------------------|--------|
| Signal word | Danger |
|--------------------|--------|

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements**Prevention**

Do not breathe gas/mist/vapours/spray.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331 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**3.2. Mixtures****General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---|----------|-------------------------|------------------------|--------------|--------|
| Distillates (petroleum), hydrotreated light naphthenic Classification: DSD: - CLP: Asp. Tox. 1;H304 | 20 - 100 | 64742-53-6 265-156-6 | 01-2119480375-34 | 649-466-00-2 | L |
| Distillates (petroleum), hydrotreated light paraffinic Classification: DSD: - CLP: - | 0 - 40 | 64742-55-8 265-158-7 | - | 649-468-00-3 | L L |
| Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based Classification: DSD: - CLP: - | 0 - 40 | 72623-86-0 276-737-9 | - | 649-482-00-X | L L |
| LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED Classification: DSD: - CLP: - | 0 - 20 | 72623-87-1 276-738-4 | - | 649-483-00-5 | L L |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC Classification: DSD: - CLP: - | 0 - 10 | 64742-65-0 265-169-7 | - | 649-474-00-6 | L L |

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---|--------|-------------------------|------------------------|--------------|-------|
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC | 0 - 10 | 64741-96-4 265-097-6 | 01-2119483621-38 | 649-457-00-3 | |
| Classification: | | | | | |
| DSD: | - | | | | L |
| CLP: | - | | | | L |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC | 0 - 10 | 64741-89-5 265-091-3 | - | 649-455-00-2 | |
| Classification: | | | | | |
| DSD: | - | | | | L |
| CLP: | - | | | | L |

SECTION 4: First aid measures

General information Contact physician if discomfort continues. Keep victim under observation.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. 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. Discomfort in the chest. Coughing.

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 a solid water stream as it may scatter and spread 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.

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 |
|--|------|----------------------|-------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |

Belgium. Exposure Limit Values.

| Components | Type | Value | Form |
|--|------|----------------------|-------|
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |

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

| Material | Type | Value | |
|--|-------------|---------------------|--|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 5 mg/m ³ | |
| Components | Type | Value | |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 5 mg/m ³ | |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TWA | 5 mg/m ³ | |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 5 mg/m ³ | |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 5 mg/m ³ | |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 5 mg/m ³ | |

Czech Republic. OELs. Government Decree 361

| Material | Type | Value | |
|--|-------------|------------------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | Ceiling | 1000 mg/m ³ | |
| | TWA | 200 mg/m ³ | |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | Ceiling | 1000 mg/m ³ | |
| | TWA | 200 mg/m ³ | |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | Ceiling | 10 mg/m ³ | Aerosol |
| | TWA | 5 mg/m ³ | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | Ceiling | 10 mg/m ³ | |
| | TWA | 5 mg/m ³ | |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | Ceiling | 10 mg/m ³ | Aerosol |
| | TWA | 5 mg/m ³ | Aerosol |

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

| Material | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TLV | 1 mg/m3 | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TLV | 1 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TLV | 1 mg/m3 | Mist. |

Finland. Workplace Exposure Limits

| Material | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 5 mg/m3 | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 5 mg/m3 | Mist. |

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

| Material | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 5 mg/m3 | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 5 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 5 mg/m3 | Mist. |

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

| Components | Type | Value | Form |
|--|-------------|---------------------|-------------|
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 5 mg/m ³ | Mist. |

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

| Material | Type | Value | Form |
|-----------------------------------|-------------|---------------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | Ceiling | 5 mg/m ³ | Mist. |

| Components | Type | Value | Form |
|--|-------------|---------------------|-------------|
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | Ceiling | 5 mg/m ³ | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | Ceiling | 5 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | Ceiling | 5 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | Ceiling | 5 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | Ceiling | 5 mg/m ³ | Mist. |

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

| Material | Type | Value | Form |
|-----------------------------------|-------------|---------------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 1 mg/m ³ | Mist. |

| Components | Type | Value | Form |
|--|-------------|---------------------|-------------|
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 1 mg/m ³ | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TWA | 1 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 1 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 1 mg/m ³ | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 1 mg/m ³ | Mist. |

Ireland. Occupational Exposure Limits

| Material | Type | Value | Form |
|-----------------------------------|-------------|-----------------------|---------------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 0,2 mg/m ³ | Inhalable fraction. |

Ireland. Occupational Exposure Limits

| Components | Type | Value | Form |
|--|-------------|--------------|---------------------|
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 5 mg/m3 | Inhalable fraction. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 5 mg/m3 | Inhalable fraction. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 5 mg/m3 | Inhalable fraction. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 5 mg/m3 | Inhalable fraction. |

Italy. Occupational Exposure Limits

| Material | Type | Value | Form |
|--|-------------|--------------|---------------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 5 mg/m3 | Inhalable fraction. |
| Components | Type | Value | Form |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 5 mg/m3 | Inhalable fraction. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 5 mg/m3 | Inhalable fraction. |

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

| Material | Type | Value | Form |
|--|-------------|--------------|----------------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 3 mg/m3 | Fume and mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 3 mg/m3 | Fume and mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TWA | 1 mg/m3 | Fume and mist. |
| | STEL | 3 mg/m3 | Fume and mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 1 mg/m3 | Fume and mist. |
| | STEL | 3 mg/m3 | Fume and mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 1 mg/m3 | Fume and mist. |
| | STEL | 3 mg/m3 | Fume and mist. |
| | TWA | 1 mg/m3 | Fume and mist. |

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

| Components | Type | Value | Form |
|--|-------------|--------------|----------------|
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 3 mg/m3 | Fume and mist. |
| | TWA | 1 mg/m3 | Fume and mist. |

Netherlands. OELs (binding)

| Material | Type | Value | Form |
|-----------------------------------|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TWA | 5 mg/m3 | Mist. |

| Components | Type | Value | Form |
|--|-------------|--------------|-------------|
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TWA | 5 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TWA | 5 mg/m3 | Mist. |

Norway. Administrative Norms for Contaminants in the Workplace

| Material | Type | Value | Form |
|-----------------------------------|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | TLV | 1 mg/m3 | Mist. |

| Components | Type | Value | Form |
|--|-------------|--------------|-------------|
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | TLV | 1 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | TLV | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | TLV | 1 mg/m3 | Mist. |

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

| Material | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |

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

| Material | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 10 mg/m3 | Aerosol |
| | TWA | 5 mg/m3 | Aerosol |

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

| Components | Type | Value | Form |
|------------|------|---------|---------|
| | TWA | 5 mg/m3 | Aerosol |

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

| Material | Type | Value | |
|--|-------------|--------------|--|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Components | Type | Value | |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

| Components | Type | Value | Form |
|--|------|----------------------------|--|
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 3 mg/m3 | Fume and mist. |
| | TWA | 15 ppm 1 mg/m3 5 ppm | Fume and mist. Fume and mist. Fume and mist. |

Spain. Occupational Exposure Limits

| Material | Type | Value | Form |
|---|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |

Spain. Occupational Exposure Limits Components

| | Type | Value | Form |
|--|-------------|--------------|-------------|
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |

Sweden. Occupational Exposure Limit Values Material

| | Type | Value | Form |
|--|-------------|--------------|-------------|
| HyVolt-PowerOil 60U (CAS Mixture) | STEL | 3 mg/m3 | Mist. |
| | TWA | 1 mg/m3 | Mist. |
| Components | Type | Value | Form |
| Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) | STEL | 3 mg/m3 | Mist. |
| | TWA | 1 mg/m3 | Mist. |
| Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) | STEL | 3 mg/m3 | Mist. |
| | TWA | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0) | STEL | 3 mg/m3 | Mist. |
| | TWA | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) | STEL | 3 mg/m3 | Mist. |
| | TWA | 1 mg/m3 | Mist. |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5) | STEL | 3 mg/m3 | 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 | Wear suitable protective equipment. |
| 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 | 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 available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | > 237,78 °C (> 460 °F) ISO 3294/ ASTM D 2887 |
| Flash point | > 135,0 °C (> 275,0 °F) Pensky-Martens Closed Cup ISO 2719/ ASTM D 93 > 146,1 °C (> 295,0 °F) Cleveland open cup ISO 2592/ ASTM D 92 |
| 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 | 0,88 (20 °C (68 °F) ISO 12185/ ASTM D 4052) |
| Solubility(ies) | |
| Solubility (water) | Insoluble |
| Solubility (other) | Not available. |
| Partition coefficient (n-octanol/water) | Not established. |
| Auto-ignition temperature | > 315 °C (> 599 °F) ASTM E 659 |
| Decomposition temperature | Not available. |
| Viscosity | 10 cSt (40 °C (104 °F) 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 applicable. |
| Skin corrosion/irritation | May cause defatting of the skin, but is neither an irritant nor a sensitizer. |
| 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 available. |
| 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 | 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.

HyVolt oils are certified to be PCB-free. HyVolt oils are processed from naturally occurring raw materials with no additives or recycled oils that might introduce PCB contamination.

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 |
| 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
 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.