# SECTION 1: Identification

## 1.1. Identification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Substance name</td>
<td>Hexylene Glycol</td>
</tr>
<tr>
<td>Chemical name</td>
<td>2-Methylpentane-2,4-diol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>107-41-5</td>
</tr>
<tr>
<td>Formula</td>
<td>C₆H₁₄O₂</td>
</tr>
<tr>
<td>Synonyms</td>
<td>2,4-dihydroxy-2-methylpentane, 2,4-pentanediol, 2-methyl- / 2-methyl-2,4-pentanediol</td>
</tr>
</tbody>
</table>

## 1.2. Recommended use and restrictions on use

<table>
<thead>
<tr>
<th>Recommended use</th>
<th>Industrial use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restrictions on use</td>
<td>Food additives, medicinal products</td>
</tr>
</tbody>
</table>

## 1.3. Supplier

### Atlanta Branch Office
Whitaker Oil Company
1557 Marietta Road NW
Atlanta, GA 30318
404-355-8220 (t)
404-355-2436 (f)

### Ocoee Branch Office
Whitaker Oil Company
280 Enterprise Street
Ocoee, FL 34761
407-656-0088 (t)
407-877-8335 (f)

### Spartanburg Branch Office
Whitaker Chemicals LLC
405 John Dodd Road
Spartanburg, SC 29303
864-578-6968 (t)
864-578-8684 (f)

Website: [www.whitakeroil.com](http://www.whitakeroil.com)
Email: SDS@whitakeroil.com

## 1.4. Emergency telephone number

| Emergency number | CHEMTREC 800-424-9300 |

# SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

**GHS-US classification**

<table>
<thead>
<tr>
<th>Flammable liquids</th>
<th>H227 - Combustible liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 4</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation Category 2A</td>
<td>H319 - Causes serious eye irritation</td>
</tr>
</tbody>
</table>

Full text of H statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

### GHS-US labeling

| Hazard pictograms (GHS-US) | ! |

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements (GHS-US)</td>
<td>H227 - Combustible liquid, H315 - Causes skin irritation, H319 - Causes serious eye irritation</td>
</tr>
</tbody>
</table>

| Precautionary statements (GHS-US) | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, P264 - Wash Skin thoroughly after handling, P280 - Wear eye protection, face protection, protective gloves, protective clothing, P302+P352 - IF ON SKIN: Wash with plenty of soap and water, P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, P332+P313 - If skin irritation occurs: Get medical advice/attention, P337+P313 - If eye irritation persists: Get medical advice/attention, P362+P364 - Take off contaminated clothing and wash it before reuse, P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction, P403+P235 - Store in a well-ventilated place. Keep cool |

<table>
<thead>
<tr>
<th>Storage</th>
<th>Cool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>Road, Rail, Air, Water</td>
</tr>
<tr>
<td>Transport risks</td>
<td>No special precautions needed</td>
</tr>
</tbody>
</table>

Date of issue: 06/25/2018
Revision date: 06/25/2018
Supersedes: 11/16/2015
Version: 1.2
2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene Glycol</td>
<td>(CAS-No.) 107-41-5</td>
<td>&gt; 99</td>
<td>Flam. Liq. 4, H227</td>
</tr>
<tr>
<td>(Main constituent)</td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures
Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Remove the victim into fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen provided a qualified individual is present.
First-aid measures after skin contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse or discard if they cannot be thoroughly cleaned. Get medical attention.
First-aid measures after eye contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present. Get medical attention. If irritation persists, consult an eye specialist.
First-aid measures after ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs nationally, have victim lean forward to reduce risk of aspiration. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after eye contact: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically and supportively.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Use foam, dry chemical, carbon dioxide, water spray, or sand.
Unsuitable extinguishing media: Do NOT use heavy water stream. Use water to cool exposed containers.

5.2. Specific hazards arising from the chemical
Fire hazard: Containers may explode in a heat of a fire. Vapors are heavier than air and may collect in low or confined area or spread to a distant source of ignition and flash back. Prevent fire-fighting water from entering environment.
Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters
Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighborhood close doors and windows.
Firefighting instructions: Cool tanks/drums with water spray/remove them into safety.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Hexylene Glycol
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Contain released product, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up: Absorb spill with inert material, then place into a chemical waste container.
Large spills should be collected mechanically (remove by pumping) for disposal.
Wash off with plenty of water, and recover water for disposal.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wash thoroughly after handling. Use with adequate ventilation. Ground and bond containers when transferring material. Earth the equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. No sparking tools should be used. Ensure that eyewash stations and safety showers are close to the workstation. Avoid contact with skin, eyes and clothing. Provide good ventilation in process area to prevent formation of vapor. Ground/bond container and receiving equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage area: Store in a dry area. Ventilation at floor level. Meet the legal requirements. Store at ambient temperature.
Packaging materials: SUITABLE MATERIAL: steel, stainless steel, carbon steel, aluminum, copper, bronze, synthetic material, glass.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
<th>Local name</th>
<th>Hexylene glycol</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>25 ppm (Vapor fraction)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH STEL (mg/m³)</td>
<td>10 mg/m³ (Inhalable fraction, Aerosol only)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>50 ppm (Vapor fraction)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Remark (ACGIH)</td>
<td>Eye &amp; URT irr</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>125 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station. An emergency eye wash/ shower must be accessible to the work area.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment
Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. PVC. neoprene. viton. chloroprene rubber

Hand protection:

Gloves

Eye protection:

Face shield

Skin and body protection:

Protective clothing

Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Clear, colorless
Odor : Mild sweet
Odor threshold : No data available
pH : 6.9 – 7.0 (10% m/v)
Melting point / Freezing point : -50 °C
Boiling point : 197 °C (1013 hPa)
Flash point : 93 °C
Relative evaporation rate (butyl acetate=1) : 1

Flammability (solid, gas) : Not applicable.
Vapor pressure : 0.05 mmHg (0.067 hPa) at 20 °C
Relative vapor density at 20 °C : 4.1
Relative density : 0.923 (20 °C)
Relative density of saturated gas/air mixture : 1
Specific gravity / density : 920 kg/m³ (20 °C)
Molecular mass : 118.2 g/mol
Solubility : Completely miscible (water)
Log Pow : 0.58 (QSAR)

Auto-ignition temperature : 306 °C
Decomposition temperature : No data available
Viscosity, kinematic : 36.957 mm²/s
Viscosity, dynamic : 34 mPa.s (20 °C)
Explosion limits : 1.30 - 9.00 vol %
52 - 490 g/m³

9.2. Other information

Saturation concentration : 0.32 g/m³
VOC content : 0 %
SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable under normal use and temperature conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Direct sunlight, extremely high or low temperature, moisture, sources of ignition.

10.5. Incompatible materials
Strong acids, and oxidizers.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
</tr>
<tr>
<td>Aspiration hazard</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ecology - water: Slightly harmful to crustacea. Slightly harmful to fishes. Slightly harmful to algae. Slightly harmful to bacteria.

<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
</tr>
</tbody>
</table>
Hexylene Glycol
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 2</td>
<td>12800 mg/l Fish, 96 h, Lepomis macrochirus</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 429 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>NOEC (chronic)</td>
<td>200 mg/l Microorganisms, 10 d, Pseudomonas putida</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Hexylene Glycol (107-41-5)

Persistence and degradability
Readily biodegradable in water.

Biochemical oxygen demand (BOD)
0.02 g O₂/g substance

Chemical oxygen demand (COD)
2.2 g O₂/g substance

ThOD
2.3 g O₂/g substance

BOD (% of ThOD)
0.01

12.3. Bioaccumulative potential

Hexylene Glycol (107-41-5)

Log Pow
0.58 (QSAR)

Bioaccumulative potential
Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Hexylene Glycol (107-41-5)

Surface tension
0.033 N/m

Ecology - soil
Highly mobile in soil.

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods
Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Product/Packaging disposal recommendations
Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

SECTION 14: Transport information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

Department of Transportation (DOT)
In accordance with DOT

Not regulated for Transport

Transportation of Dangerous Goods

Transport by sea

Air transport
Hexylene Glycol
Safety Data Sheet

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

<table>
<thead>
<tr>
<th>Hexylene Glycol (107-41-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>State or local regulations U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date: 06/25/2018

Full text of H-phrases:

| H227 | Combustible liquid |
| H319 | Causes serious eye irritation |

NFPA health hazard: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity: 0 - Material that in themselves are normally stable, even under fire conditions.

SDS US (GHS HazCom 2012)

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