1. IDENTIFICATION

1.1. Product identifier

Product name: Enviroguard Hyd oil 68
Product code: 845
Synonyms: None

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

Recommended use: Lubricant
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer: AXEL Royal, LLC
516 S. 25th West Ave
Tulsa, OK 74127
United States
918 584 2671

1.4. Emergency telephone number

ChemTel Emergency telephone: 1-800-255-3924
International Emergency telephone: +01-813-248-0585

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2. Label elements

Signal word: None
Symbols/Pictograms: None

2.3. Hazards not otherwise classified (HNOC)

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

2.4. Other information

Not applicable.
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td>64742-53-6</td>
<td>2.5-5</td>
</tr>
<tr>
<td>Butylated phenol</td>
<td>128-39-2</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

The exact percentage (concentration) of composition has been withheld as a trade secret.

Ingredient comments

The mineral oils in the product contain <3% DMSO-extract (IP 346).

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Skin contact
Wash skin with soap and water.

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion
Do not induce vomiting without medical advice. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms
None known.

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

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Use CO2, dry chemical, or foam.

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

Not flammable. Fire may produce irritating and/or toxic gases.

Hazardous combustion products
Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Extremely slippery when spilled. Avoid contact with eyes and skin. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Extremely slippery when spilled. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or mists.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep at a temperature not exceeding 45°C.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>TWA: 20 ppm</td>
<td>TWA: 200 ppm</td>
<td>IDLH: 500 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 100 ppm</td>
<td>(vacated) TWA: 375 mg/m³</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 150 ppm</td>
<td>(vacated) STEL: 375 mg/m³</td>
<td>TWA: 375 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 300 ppm</td>
<td>STEL: 150 ppm</td>
<td>STEL: 560 mg/m³</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>TWA: 25 ppm</td>
<td></td>
<td>TWA: 125 mg/m³</td>
</tr>
</tbody>
</table>

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2. Exposure controls

Engineering controls Eyewash stations

Ventilation systems

8.3. Individual protection measures, such as personal protective equipment
Hand protection  
Wear protective nitrile rubber gloves Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection.

Eye/face Protection  
Wear safety glasses with side shields (or goggles).

Skin and body protection  
No special technical protective measures are necessary.

Respiratory protection  
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations  
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Smooth</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.5 °C / &gt; 200.3 °F</td>
<td>ASTM D92</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limits in air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td>insoluble</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>68.00 mm²/s</td>
<td>@ 40 °C</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat.

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1. Information on likely routes of exposure

Inhalation  Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
Ingestion  Malaise (vague feeling of discomfort).
Skin contact  May be harmful in contact with skin.
Eye contact  May cause slight irritation.

11.2. Information on toxicological effects

Symptoms  No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation  Not hazardous based on component data.
Serious eye damage/eye irritation  Not hazardous based on component data.
Sensitization  Not hazardous based on component data.
Germ cell mutagenicity  Not hazardous based on component data.
Carcinogenicity  Not hazardous based on component data.
Reproductive toxicity  Not hazardous based on component data.
STOT-single exposure  Not hazardous based on component data.
STOT-repeated exposure  Not hazardous based on component data.
Aspiration hazard  Not hazardous based on component data.

11.4. Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>LC50 (lethal concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil 64742-53-6</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 2180 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Butylated phenol</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 10 g/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Page 5 / 8
The following values are calculated based on chapter 3.1 of the GHS document:

- ATEmix (oral): 4957 mg/kg
- ATEmix (dermal): 2042 mg/kg
- ATEmix (inhalation-dust/mist): 33.4 mg/l

### 12. ECOLOGICAL INFORMATION

#### 12.1. Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil 64742-53-6</td>
<td>-</td>
<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>-</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Butylated phenol 128-39-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.45: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

Not readily biodegradable.

#### 12.3. Bioaccumulative potential

Material does not bioaccumulate.

#### 12.4. Mobility in soil

After release, adsorbs onto soil.

#### 12.5. Results of PBT and vPvB assessment

No information available

#### 12.6. Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

- **Disposal of wastes**: Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8.
- **Contaminated packaging**: Dispose of in accordance with federal, state and local regulations
- **US EPA waste number**: No information available
- **Other information**: Waste codes should be assigned by the user based on the application for which the product was used

### 14. TRANSPORT INFORMATION

#### 14.1. UN number

Not regulated

#### 14.2. UN proper shipping name

Not regulated

#### 14.3. Transport hazard class(es)
Not regulated

14.4. Packing group
Not applicable

14.5. Environmental hazards
None

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

14.7. Special precautions for user
None

15. REGULATORY INFORMATION

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

CWA (Clean Water Act)  
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

International Inventories

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>-</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>-</td>
</tr>
<tr>
<td>AICS</td>
<td>-</td>
</tr>
<tr>
<td>NZIoC</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313  
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CERCLA  
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.
US State Regulations

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>Developmental</td>
</tr>
<tr>
<td>108-88-3 (0.077675 %)</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>Developmental</td>
</tr>
<tr>
<td>67-56-1 (0.005595 %)</td>
<td></td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>100-41-4 (0.00005 %)</td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>98-82-8 (0.0005 %)</td>
<td></td>
</tr>
<tr>
<td>Ethyl acrylate</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>140-88-5 (9.98e-006 %)</td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>91-20-3 (9.5e-006 %)</td>
<td></td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>64742-53-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection B

NFPA Health hazards 1 Flammability 1 Instability 0 Special Hazard -

Revision date 20-Nov-2019
Revision note No information 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.

End of Material Safety Data Sheet