SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name or designation of the mixture: Husqvarna 2-Stroke Oil Guard
Registration number: -
Synonyms: None.
Product code: 544 97 65-01 (1L), 544 97 65-02 (0.1L)
Issue date: 29-May-2015
Version number: 01
Revision date: -
Supersedes date: -

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: 2-Stroke oil.
Uses advised against: Use in accordance with supplier’s recommendations.

1.3. Details of the supplier of the safety data sheet
Manufacturer/Supplier: Husqvarna AB
Address: Drottninggatan 2
Telephone: +46 (0)36-14 65 00
Contact person: Accessory Department
E-mail: sds.info@husqvarna.se

1.4. Emergency telephone number: +1-760-476-3961 (Access code 333721)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture 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 preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

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.

Hazard summary
Physical hazards: Not classified for physical hazards.
Health hazards: Not classified for health hazards.
Environmental hazards: Not classified for hazards to the environment.
Specific hazards: May be irritating to the skin. May cause eye irritation on direct contact. May form vapours or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract. Vapours may cause drowsiness and dizziness. Prolonged exposure to oil mist may cause pulmonary disease such as chronic inflammation. Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.
Main symptoms: May cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Hazard pictograms: None.
Signal word: None.
Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements
Prevention: Not assigned.
Response: Not assigned.
Storage: Not assigned.
Supplemental label information
- EUH210 - Safety data sheet available on request.

2.3. Other hazards
- Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No./EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (DMSO-extract &lt; 3% IP 346)</td>
<td>&gt; 50</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>DSD:</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLP:</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</td>
<td>10 - 20</td>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>649-422-00-2</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>DSD:</td>
<td>Xn;R65, R66</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLP:</td>
<td>Asp. Tox. 1;H304</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbyl amine</td>
<td>1 - 5</td>
<td>Polymer</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>DSD:</td>
<td>R52/53</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLP:</td>
<td>Aquatic Chronic 3;H412</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

List of abbreviations and symbols that may be used above
- DSD: Directive 67/548/EEC.
- #: This substance has been assigned Community workplace exposure limit(s).

Composition comments
- The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation
- Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

Skin contact
- Immediately remove contaminated clothing. Wash with soap and water. Continue to rinse for at least 15 minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. If high pressure injection under the skin occurs, always seek medical attention.

Eye contact
- Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get immediate medical attention.

Ingestion
- May cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

In case of rashes, wounds or other skin disorders:
- Seek medical attention and bring along these instructions.

4.2. Most important symptoms and effects, both acute and delayed
- Provide general supportive measures and treat symptomatically. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Symptoms may be delayed. HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing.

SECTION 5: Firefighting measures

General fire hazards
- Heating may generate vapors which may form explosive vapor/air mixtures. Material will float and can be re-ignited on surface of water.
5.1. Extinguishing media
Suitable extinguishing media
Foam. Dry powder. Carbon dioxide (CO2). Water fog.

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
By heating and fire, irritating vapours/gases may be formed.

5.3. Advice for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). In case of spills, beware of slippery floors and surfaces. Avoid breathing mist or vapour. Avoid contact with skin and eyes. Wear protective clothing as described in section 8 of this safety data sheet.

For emergency responders
Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Environmental manager must be informed of all major releases.

6.3. Methods and material for containment and cleaning up
Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

Small Spills: Absorb spillage with non-combustible, absorbent material. 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 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Use only in well-ventilated areas. Avoid inhalation of oil mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Wash contaminated clothing before reuse. Be aware of potential for surfaces to become slippery. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from ignition, flame and heat sources. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Store locked up.

7.3. Specific end use(s)
2-Stroke oil.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits
No exposure limits noted for ingredient(s).

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

Recommended monitoring procedures
Follow standard monitoring procedures.

Derived no-effect level (DNEL)
Not available.

Predicted no effect concentrations (PNECs)
Not available.

8.2. Exposure controls
Appropriate engineering controls
Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Use explosion-proof equipment. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment
General information
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection
Risk of contact: Wear safety glasses with side shields (or goggles).
- Hand protection
  Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may
  penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by
  the glove supplier.

- Other
  Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection
  In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with
  combination filter (type A2/P2) can be used. Wear air-supplied mask in confined areas. Seek
  advice from local supervisor.

Thermal hazards
  Wear appropriate thermal protective clothing, when necessary.

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 and protective
  equipment to remove contaminants. When using, do not eat, drink or smoke. Launder
  contaminated clothing before reuse. Private clothes and working clothes should be kept
  separately.

Environmental exposure controls
  Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Orange.</td>
</tr>
<tr>
<td>Odour</td>
<td>Solvent.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>89.0 °C (192.2 °F) ISO 2719</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.01 kPa</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.871</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Negligible.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Log Kow: &gt;3 (Estimated).</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>45.17 mm²/s (40 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidising.</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>871.30 kg/m³ ISO 12185</td>
</tr>
</tbody>
</table>

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
  Material is stable under normal conditions.

10.3. Possibility of hazardous reactions
  Hazardous polymerisation does not occur.

10.4. Conditions to avoid
  Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

10.5. Incompatible materials
  Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products
  By heating and fire, irritating vapours/gases may be formed. Carbon oxides.
SECTION 11: Toxicological information

General information
Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation
Vapours may cause drowsiness and dizziness. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.

Skin contact
May be irritating to the skin. Prolonged or repeated contact may dry skin and cause dermatitis.

Eye contact
Direct contact with eyes may cause temporary irritation.

Ingestion
Ingestion may cause irritation and malaise. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis.

Symptoms
May cause redness and pain. Defatting of the skin. Dermatitis. May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Vapours may cause drowsiness and dizziness. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.

11.1. Information on toxicological effects

Acute toxicity
May irritate and cause stomach pain, vomiting, diarrhoea and nausea. Human evidence indicates that the product has very low acute oral, dermal or inhalation toxicity. However, it can produce severe injury if taken into the lung as a liquid, and there may be profound central nervous system depression following prolonged exposure to high levels of vapour.

Skin corrosion/irritation
May be irritating to the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation
No data available.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
Not classified.

Reproductive toxicity
No data available.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available.

Aspiration hazard
Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.

Mixture versus substance information
Not available.

Other information
Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

SECTION 12: Ecological information

12.1. Toxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability
Expected to biodegrade slowly.

12.3. Bioaccumulative potential
The product contains potentially bioaccumulating substances.

Partition coefficient
\[ \text{n-octanol/water (log Kow)} \]
Log Kow: >3 (Estimated).

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
The product adsorbs strongly to soil.

Mobility in general
The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
Oil spills are generally hazardous to the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste
Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Dispose in accordance with all applicable regulations. This material and/or its container must be disposed of as hazardous waste.

SECTION 14: Transport information

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 applicable.

SECTION 15: Regulatory information

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

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  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, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
  Not listed.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
  Not listed.
Other EU regulations

Directive 2012/18/EU on 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
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS 64742-47-8)

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
Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)
ESIS (European chemical Substances Information System)

Information on evaluation method leading to the classification of mixture
The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Training information
Follow training instructions when handling this material.

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.