1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name: Husqvarna Vegoil
Recommended use: Vegetable chain/lubricating oil for chainsaws and logging machinery.
Version No.: 01
CAS No.: Mixture
Product code: 544 04 51-01 (1L), 531 00 75-78 (5L), 531 00 75-77 (20L), 531 00 75-79 (200L)
Manufacturer
Supplier: Husqvarna New Zealand Ltd
Address: 51 Aintree Avenue, Mangere, Auckland 2022
Country: New Zealand
Telephone: +64 9 920 2410
e-mail: anthony.barry@husqvarnagroup.com
Contact: Anthony Barry
Emergency: Contact the Poisons Information Centre; Ph. 0800 764 766

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Risk phrase(s): None.
Safety phrase(s): None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oils, vegetable</td>
<td>68956-68-3</td>
<td>100</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST-AID MEASURES

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

Skin contact: Wash with soap and water. 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: Flush eyes immediately with large amounts of water. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists.

Ingestion: 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.

General advice: If you feel unwell, seek medical advice (show the label where possible).

Notes to physician: 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.

5. FIRE-FIGHTING MEASURES


Extinguishing media which must not be used for safety reasons: Do not use water jet as an extinguisher, as this will spread the fire.

Unusual fire & explosion hazards: Heating will generate vapours which may form explosive vapour/air mixtures. Material will float and can be re-ignited on surface of water.

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

Special protective equipment 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.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in section 8 of this safety data sheet.

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.

Containment procedures
Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for 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: Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination.

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

7. HANDLING AND STORAGE

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. Do not eat, drink or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

Storage
Keep away from ignition, flame and heat sources. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Storage temperature: between 0 °C and 40 °C. Avoid long-term storage at temperatures below -20 °C and above 40 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits
Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oils, vegetable (CASTWA10 mg/m3 inhalable mist. 68956-68-3)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oils, vegetable (CAS 68956-68-3)</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>Inspirable dust.</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures
No exposure limits noted for ingredient(s).

Engineering measures
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.

Personal protective equipment
Respiratory protection
In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with particulate filter and organic vapor cartridges can be used. Wear air-supplied mask in confined areas. Seek advice from local supervisor.

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.

Eye protection
Risk of contact: Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Yellow to yellowish brown liquid.

Physical state
Liquid.
Form | Liquid.
---|---
Colour | Yellow to yellowish brown.
Odour | Rapseseed oil-like. Slight.
Odour threshold | Not available.
pH | Not available.
Vapour pressure | Not available.
Vapour density | Not available.
Boiling point | Not available.
Melting point/freezing point | Not available.
Solubility (water) | Insoluble.
Flash point | 230.0 °C (446.0 °F)
Flammability limits in air, upper, % by volume | Not available.
Flammability limits in air, lower, % by volume | Not available.
Auto-ignition temperature | Not available.
Evaporation rate | Not available.
Viscosity | 16 mm²/s (100 °C)
| 70 mm²/s (40 °C)
Pour point | Pourable after 96 hours at -30 °C.
Other data
Explosive properties | Not available.
Flammability (solid, gas) | Not applicable.
Oxidizing properties | Not oxidizing.
Relative density | 0.92 (15 °C) (Water = 1)

10. STABILITY AND REACTIVITY

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

Materials to avoid: Strong oxidising agents.

Hazardous decomposition products: By heating and fire, irritating vapours/gases may be formed. Carbon oxides.

Hazardous polymerisation: Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicological data</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Husqvarna Vegoil (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 4000 mg/kg, (OECD 402)</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, (OECD 401)</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>May cause discomfort if swallowed.</td>
<td></td>
</tr>
<tr>
<td>Routes of exposure</td>
<td>Inhalation. Eyes. Skin. Ingestion.</td>
<td></td>
</tr>
<tr>
<td>Chronic toxicity</td>
<td>Prolonged contact may cause dryness of the skin. Prolonged or repeated inhalation may cause respiratory tract irritation.</td>
<td></td>
</tr>
<tr>
<td>Sensitisation</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified.</td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Ames test: Negative.</td>
<td></td>
</tr>
<tr>
<td>Reproductivity</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Symptoms and target organs</td>
<td>May cause eye irritation on direct contact. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise. In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>No other specific acute or chronic health impact noted.</td>
<td></td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Ecotoxicity
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.

Persistence and degradability
The product is readily biodegradable. BOD: > 95% / 21 days (CEC L-33-A-93).

Mobility
The product is insoluble in water and will spread on the water surface.

Bioaccumulation
No data available.

Other adverse effects
Oil spills are generally hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

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

Waste from residues / unused products
Dispose of in accordance with local regulations.

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

14. TRANSPORT INFORMATION

ADG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Hazchem Code
None

15. REGULATORY INFORMATION

National regulations
This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.) No poison schedule number allocated.

16. OTHER INFORMATION

Recommended use
Vegetable chain/lubricating oil for chainsaws and logging machinery.

Recommended restrictions
Use in accordance with supplier’s recommendations.

Bibliography
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

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

Prepared by
Husqvarna AB

Issue date
15-November-2013

Revision date
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