

MATERIAL SAFETY DATA BULLETIN

Part No RGA-003

BIO DEGRADABLE CHAIN OIL

1. PRODUCT & COMPANY IDENTIFICATION

Product Name RYOBI BIO-DEGRADABLE CHAINSAW CHAIN OIL
SUPPLIER ALM MANUFACTURING
ST JAMES BUSINESS PARK
KNARESBOROUGH
HG5 8PJ

EMERGENCY HELP LINE 01536 201555

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME & SYNONYMS : VEGETABLE OIL AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not hazardous to health as defined by EC Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

3. HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE : No significant effects expected.

4. FIRST AID MEASURES

EYE CONTACT : Flush thoroughly with water. If irritation occurs, call a doctor

SKIN CONTACT : **Wash contact areas with soap and water.**

INHALATION : Not expected to be a problem.

INGESTION : Not expected to be a problem. However, if greater than 1/2 litre ingested seek medical attention. DO NOT INDUCE VOMITTING

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEEDURES : Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Prevent runoff from fire controls or dilution from entering waterways or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, firefighters MUST use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Note : Pressurized mists may form a flammable mixture. Flash Point 300 c (IP34/ASTM D-93) Flammable limits - LEL NA, UEL NA.

NFPA HAZARD ID :Health : 0, Flammability : 1, Reactivity : 0,

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide. Elemental oxides

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEEDURES :Report spills as required to appropriate authorities such as the local environmental health Officer or fire brigade. If spills are likely to enter any drain, waterway or groundwater, contact the area water authority. In case of accident or road spill, contact the police and Fire Brigade and if appropriate, the area water Authority.

PROCEEDURES IF MATERIAL IS RELEASED OR SPILLED : Contain and absorb on fire retardant treated sawdust, diatomaceous earth, etc. shovel up and dispose of at an appropriate waste disposal facility in accordance with the current applicable laws and regulations.

ENVIROMENTAL PRECAUTIONS : Do not empty product into drains

PERSONAL PRECAUTIONS : See section 8

7. HANDLING and STORAGE

SPECIFIC USES : Chain Saw Chain Lubricant

HANDLING : No specific precautions are necessary beyond normal good hygiene practices

STORAGE : Do not store in open or unlabelled containers .Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION : No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION ; No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION : Normal Industrial eye protection practices should be employed.

SKIN PROTECTION : No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS : This product does not contain any components which have recognized exposure limits. However ,a product exposure limit of 5.00mg/m³ is suggested for oil mist.

9. PHYSICAL and CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

PHYSICAL STATE : Liquid

COLOUR: BLUE

ODOUR: Mild

ODOUR THRESHOLD-PPM: NE

pH: NA

BOILING POINT C(F): NE

MELTING POINT C(F): NA

FLASH POINT C(F): > 220(428) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY C(F): NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: NE

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.92

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, cSt: 36.0

VISCOSITY AT 100 C, cSt: 8.4

POUR POINT C(F): -18(0)

FREEZING POINT C(F): NE

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY : Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY: Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY : Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION : Practically non-irritating. (Draize score: 0 or greater but 6 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION: Practically non-irritating. (Primary

16. OTHER INFORMATION

USE: Chain Saw Chain Lubricant

NOTE: This product should not be used for any other purpose without expert advice

COSHH Regulations : Product reviewed and no action under COSHH considered necessary

NOTE: PRODUCT IS NOT FORMULATED TO CONTAIN PCBs.

It is believed that all the information given in this bulletin (which supersedes all previous issues) is accurate at the time of printing. Such information is offered in good faith but without guarantee and without any representation that the product concerned is suitable for any use or application. Without limitation of the foregoing, nothing herein shall be construed as a recommendation for uses, which infringe valid patents, or as extending any licence under valid patents.

Users should verify current specifications with us and ascertain that products are suitable for intended uses and applications

Where the information provided herein discloses a potential hazard or hazardous ingredient, adequate warning must be provided to employees and users and appropriate precautions taken, including the practice of good industrial hygiene.

Produced by LAO Technical Department NN17 5DX England

Dated 22/09/2005