



Viking Juice - CVJ1 - Materials Safety Data Sheet

Viking Juice

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Code: CVJ1

Issued Date 29/09/2009

Product Type/Use: Chain lubricant

Supplier:

Velobrands LLP

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Flightway Business Park

Honiton

EX14 4RD

Emergency Telephone Number

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2. HAZARDS IDENTIFICATION

EC Classification: Classified as Dangerous under EC criteria

Health Hazards

Harmful, may cause lung damage if swallowed.

Repeated exposure may cause skin dryness and cracking.

Vapours may cause drowsiness and dizziness.

Physical/chemical hazards: Liquids can release vapours that can readily form flammable mixtures at temperatures at or above the flashpoint. Static discharge. Product may accumulate static charges which can cause an incendiary electrical discharge. Electrostatic charges may be generated during handling. Electrostatic discharge may cause fire. May ignite on surfaces at temperatures above auto-ignition temperature.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description

Highly refined mineral oils. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

Dangerous Components / Constituents

Exposure limits apply to the following components: Highly refined mineral oil.

Name	Concentration	R Phrase	CAS	EINECS
Highly-refined mineral oils	5-10%		Mixture	
Polyisobutenes	10-20%		Mixture	
Naphtha (petroleum) Hydrotreated	60-80%	10, 65, 66, 67	64742-48-9	
2-(2heptadec-8-enyl-2-imidazolin-1-yl)ethanol	0.1-5%	22/34, 36/38, 50/53	95-38-5	
1 H imidazole-1-ethanol 4,5 dihydro-2-C15-C17 alkyl derivatives	0.1-1%	22, 34, 50/53	68937-01-9	
Amines C11-14 branched alkyl monohexyl & dihexyl phosphates	0.1-1%	36/38, 51/53	080939-62-4	

4. FIRST AID MEASURES

Symptoms and Effects: Not expected to give rise to an acute hazard under normal conditions of use.

Inhalation: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact: Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Eye Contact : Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.

Ingestion: If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment.

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Advice to Physician: Treat symptomatically. Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function.

Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

There may be a risk to health where low viscosity products are aspirated into the lungs following vomiting, although this is uncommon in adults. Such aspiration would cause intense local irritation and chemical pneumonitis.

Children, and those in whom consciousness is impaired, will be more at risk. Emesis of lubricants is not usually necessary, unless a large amount has been ingested, or some other compound has been dissolved in the product. If this is indicated, for example, when there is rapid onset of central nervous system depression from large ingested volume - gastric lavage under controlled hospital conditions, with full protection of the airway is required. Supportive care may include oxygen, arterial blood gas monitoring, respiratory support, and, if aspiration has occurred, treatment with corticosteroids and antibiotics. Seizures should be controlled with Diazepam, or appropriate equivalent drug.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards: Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

Extinguishing Media: Foam, water, spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use water in a jet. Use of halon extinguishers should be avoided for environmental reasons.

Protective Equipment for Fire-fighters: Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Wear PVC, Neoprene or nitrile rubber gloves. Wear rubber knee length safety boots and PVC Jacket and Trousers. Wear safety glasses or full face shield if splashes are likely to occur.

Environmental Precautions

Eliminate sources of ignition. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Inform local authorities if this cannot be prevented.

Clean-up Methods - Small Spillages

Absorb liquid with sand or earth. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

Clean-up Methods - Large Spillages

Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Dispose of as for small spills.

Additional Advice: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex 1 Regulation 26.

7. HANDLING AND STORAGE

Handling: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Avoid prolonged or repeated contact with skin. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Cloth, paper and other materials that are used to absorb spills present a fire hazard. Avoid their accumulation by disposing of them safely and immediately. In addition to any specific recommendations given for controls of risks to health, safety and the environment, an assessment of risks must be made to help determine controls appropriate to local circumstances. Exposure to this product should be reduced as low as reasonably practicable. Reference should be made to the Health and Safety Executive's publication 'COSHH Essentials'.

Storage: Keep in a cool, dry, well-ventilated place. Use properly labelled and closeable containers. Avoid direct sunlight, heat sources, and strong oxidizing agents. The storage of this product maybe subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance maybe obtained from the local environmental agency office.

Storage Temperatures 0°C Minimum. 50°C Maximum.



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Recommended Materials For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials For containers or container linings, avoid PVC.

Other Information Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Substance	Regulations	Exposure Duration	Exposure Limit	Units
Oil mist,	EH 40 2005	TWA	5 mg/m ³	
EH 40 2005	STEL	10 mg/m ³		

EH 40 2005 Health and Safety Executive. EH40; Workplace Exposure Limits

Exposure Controls

The use of personal protective equipment is only one aspect of an integrated approach to the Control of Substances Hazardous to Health.

The management of Health and Safety at Work Regulations 1992 require employers to identify and evaluate the risks to health and to implement appropriate measures to eliminate or minimise those risks. The choice of personal protective equipment is highly dependent upon local conditions, e.g. exposure to other chemical substances and micro-organisms, thermal hazards (protection from extremes of cold and heat), electrical hazards, mechanical hazards and appropriate degree of manual dexterity required to undertake an activity.

Whilst the content of this section may inform the choice of personal protective equipment used, the limitations of any information which can be provided must be fully understood, e.g. personal protective equipment chosen to protect employees from occasional splashes maybe entirely inadequate for activities involving partial or complete immersion. If the levels of oil mist or vapour in air are likely to exceed the occupational exposure standards then consideration should be given to the use of local exhaust ventilation to reduce personal exposure.

The choice of personal protective equipment should only be undertaken in the light of a full risk assessment by a suitably qualified competent person (e.g. a professionally qualified occupational hygienist). Effective protection is only achieved by correctly fitting and well maintained equipment and employers should ensure that appropriate training is given. All personal protective equipment should be regularly inspected and replaced if defective. Reference should be made to HSE's publication Methods for the Determination of Hazardous Substances (MDHS) 84 - Measurement of oil mist from mineral oil-based metalworking fluids. Measurement of an employee's exposure to oil vapour may be supplemented through the use of stain tubes.



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In the first instance, further guidance may be obtained through HSE's publication 'COSHH - a brief guide to the regulations' (INDG 136(rev1)).

Respiratory Protection

At standard temperature and pressure, the Occupational Exposure Standard for oil vapour is unlikely to be exceeded. Care should be taken to keep exposures below applicable occupational exposure limits. If this cannot be achieved, use of a respirator fitted with an organic vapour cartridge combined with a particulate pre-filter should be considered. Half masks (EN 149) or valved half masks (EN 405) in combination with type A2 (EN 141) and P2/3 (EN 143) pre-filters may be considered.

Hand Protection

Chemical protective gloves are made from a wide range of materials, but there is no single glove material (or combination of materials) which gives unlimited resistance to any individual or combination of substances or preparations. The extent of the breakthrough time will be affected by a combination of factors which include permeation, penetration, degradation, use pattern (full immersion, occasional contacts) and how the glove is stored when not in use.

Theoretical maximum levels of protection are seldom achieved in practice and the actual level of protection can be difficult to assess. Effective breakthrough time should be used with care and a margin of safety should be applied. HSE guidance on protective gloves recommends a 75% safety factor to be applied to any figures obtained in a laboratory test. Nitrile gloves may offer relatively long breakthrough times and slow permeation rates. Test data, e.g breakthrough data obtained through test standard EN374-3:1994 are available from reputable equipment suppliers.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. A non perfumed moisturiser should be applied.

Eye Protection

Goggles conforming to a minimum standard of EN 166 345B should be considered if there is a possibility of eye contact with the product through splashing. Higher rated eye protection must be considered for highly hazardous operations or work areas. For example, employees involved in metalworking operations such as chipping, grinding or cutting may require additional protection to avert injury from fast moving particles or broken tools.

Body Protection

Minimise all forms of skin contact. Overalls and shoes with oil resistant soles should be worn. Launder overalls and undergarments regularly.

Environmental Exposure Controls

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Colour Golden yellow.

Physical State Liquid at ambient temperature.

Odour aromatic.

pH Value Data not available.

Vapour Pressure Expected to be less than 0.5 Pa at 20°C.

Initial Boiling Point Expected to be 143-160°C.

Solubility in Water Negligible.

Density 787 kg/m³ at 15°C.

Flash Point >30°C. (COC).

Flammable Limits - Upper 7%(V/V) (typical).

Flammable Limits - Lower 0.6%(V/V) (typical).

Auto-Ignition Temperature >220°C (typical).

Kinematic Viscosity 1.0 mm²/s at 40°C.

Pour Point -15°C.

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to Avoid Extremes of temperature and direct sunlight. Sparks and other sources of ignition.

Materials to Avoid Strong oxidizing agents.

Hazardous Decomposition Products Hazardous decomposition products are not expected to form during normal storage.



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11. TOXICOLOGICAL INFORMATION

Basis for Assessment Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.

Acute Toxicity – Oral LD50 expected to be > 2000 mg/kg.

Acute Toxicity – Dermal LD50 expected to be > 2000 mg/kg.

Acute Toxicity – Inhalation Not considered to be an inhalation hazard under normal conditions of use.

Eye Irritation Expected to be slightly irritating.

Skin Irritation Expected to be slightly irritating.

Respiratory Irritation If mists are inhaled, slight irritation of the respiratory tract may occur.

Skin Sensitisation Not expected to be a skin sensitizer.

Carcinogenicity Components are not known to be associated with carcinogenic effects.

Mutagenicity Not considered to be a mutagenic hazard.

Reproductive Toxicity Not considered to be toxic to reproduction.

Other Information

Prolonged and/or repeated contact with products containing mineral oils may result in defatting of the skin, particularly at elevated temperatures. This may lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene. Skin contact should be minimised. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed. Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.



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12. ECOLOGICAL INFORMATION

Basis for Assessment

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Mobility

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Persistence / Degradability

Not expected to be readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation

Contains components with the potential to bioaccumulate.

Ecotoxicity

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Product is expected to be practically non-toxic to aquatic organisms, LL/EL50 >100 mg/l. (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Other Adverse Effects

Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Recycle or dispose of in accordance with prevailing regulations, by a recognised collector or contractor. The competence of the contractor to deal satisfactorily with this type of product should be established beforehand. Do not pollute the soil, water or environment with the waste product.

Product Disposal

As for waste disposal.

Container Disposal

Recycle or dispose of in accordance with the legislation in force with a recognised collector or contractor.



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14. TRANSPORT INFORMATION

Dangerous for transport under ADR/RID, IMO and IATA/ICAO regulations.

ADR/RID

Class: 3

Packing group: III

IMDG

Class / Division 3

Packing group III

IATA (Country variations may apply)

Class / Division: 3

Packing group: III

15. REGULATORY INFORMATION

EC Symbols: Xn Harmful.

EC Risk Phrases:

R10 Flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness and cracking

R67 Vapours may cause drowsiness and dizziness

EC Safety Phrases:

S23 Do not breathe vapour.

S24 Avoid contact with skin.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

S43A In case of fire use sand, earth, chemical powder or foam

WS62 If swallowed do not induce vomiting, seek medical advice immediately and show container or label.

EINECS All components listed or polymer exempt.

TSCA (USA) All components listed.



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National Legislation

Environmental Protection Act 1990 (as amended).

Health and Safety at Work Act 1974

Consumers Protection Act 1987

Control of Pollution Act 1974

Environmental Act 1995

Factories Act 1961

Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

Control of Substances Hazardous to Health Regulations 1994 (as amended).

Road Traffic (Carriage of Dangerous Substances in Packages) Regulations

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations

Road Traffic (Carriage of Dangerous Substances in Road Tankers in Tank Containers) Regulations

Road Traffic (Training of Drivers of Vehicles Carrying Dangerous Goods) Regulations

Reporting of Injuries, Diseases and Dangerous Occurrences Regulations

Health and Safety (First Aid) Regulations 1981

Personal Protective Equipment (EC Directive) Regulations 1992

Personal Protective Equipment at Work Regulations 1992

Packaging & Labelling

Safety data sheet available for professional user on request.

16. OTHER INFORMATION

Revisions Highlighted

Revised according to REACh Legislation

Further Information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute a guarantee for any specific property of the product.