

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

1.1. Product identifier

Name of product Vector Premium Lubrication (VL-S)

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

Identified uses

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Recommended intended purpose(s)

lubricant

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

Vector Research and Development
6824 19th St. #230, USA- University Place, WA 98466
Phone 001-866-669 02 11

Advice

Mr. Brent Bigler Vector Research and Development
Phone 001-972 666 0211

1.4. Emergency telephone number

Emergency advice

Mr. Brent Bigler
Phone 001-972 666 0211

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Precautionary Statements

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Special rules for supplemental label elements for certain mixtures

Safety data sheet available on request.

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Esteröl

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take affected person into fresh air.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of irritation consult a doctor.

In case of contact with skin wash off with water.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Remove contact lens

In case of ingestion

Do not induce vomiting.

Medical treatment.

Rinse out mouth thoroughly with water.

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

No information available.

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

Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Breathing protection and eye protection is required for fire-fighting under presence of fume and vapour

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders

Remove persons to safety.

Use personal protective clothing.

Observe protective instructions (see Sections 7 and 8).

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Take up with absorbent material.

Additional Information

Inform competent authorities in case of leakage to sewage system/surface water/ground water.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures

Please observe work hygiene regulations.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Keep away from foods and beverages

Further information on storage conditions

Protect from heat and direct solar radiation.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Respiratory protection

not necessary

Breathing apparatus in the event of aerosol or mist formation.

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrilrubber (index 1)
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

The exact breakthrough time of the glove material is to be inquired from the protection glove manufacturer and must be strictly adhered to.

Eye protection

safety goggles with side protection

Other protection measures

Protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

yellowish

Odour

characteristic

Odour threshold

No data available

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|--|----------------|-------------|----|----------|--------|
| pH value | not determined | | | | |
| Boiling temperature / boiling range | not determined | | | | |
| Melting point / Freezing point | not determined | | | | |
| Flash point | > 200 °C | | | open cup | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | not determined | | | | |
| Flammability (gas) | not determined | | | | |
| Ignition temperature | not determined | | | | |
| Self ignition temperature | not determined | | | | |
| Lower explosion limit | not determined | | | | |
| Upper explosion limit | not determined | | | | |
| Vapour pressure | < 0,001 hPa | 20 °C | | | |
| Relative density | 0,86 | 20 °C | | | |
| Vapour density | not determined | | | | |

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| | Value | Temperature | at | Method | Remark |
|--|---------------------------|-------------|----|--------|--------|
| Solubility in water | not determined | | | | |
| Solubility/other | not determined | | | | |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | not determined | | | | |
| Viscosity kinematic | 17 mm ² /s | 40 °C | | | |
| Oxidising properties | No information available. | | | | |
| Explosive properties | No information available. | | | | |
| 9.2. Other information | no | | | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known.

10.2. Chemical stability

Stable under the stated storage temperature.

10.3. Possibility of hazardous reactions

no

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark No decomposition if used as directed.

Additional information

No risk of production of decomposition products when appropriately handled and stored

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Specific target organ toxicity (single exposure)

no

Specific target organ toxicity (repeated exposure)

no

Aspiration hazard

no

Additional information

No toxicological data available.

The product is to be handled with the caution usual with chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| | Value | Species | Method | Validation |
|-----------------|--------------------|---------|--------|------------|
| Fish | No data available. | | | |
| Daphnia | No data available. | | | |
| Algae | No data available. | | | |
| Bacteria | No data available. | | | |

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|---------------------------------------|--------------------|--------------------|--------|------------|
| Physico-chemical degradability | No data available. | | | |
| Biological degradability | No data available. | | | |
| Degradability | No data available. | | | |

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation

While intended handling are no environmental pollutions admits and to expect.

Ecological data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Consult the appropriate local waste disposal expert about waste disposal.

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of in accordance with legal regulations.

Packaging that cannot be cleaned should be disposed of like the product.

General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|----------------------------------|---------|------|----------|
| 14.1. UN number | - | - | - |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| 14.4. Packing group | - | - | - |
| 14.5. Environmental hazards | - | - | - |

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

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

No information available.

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Sources of key data used

Data sheets of the sub-supplier.