



1 Identification

- **Product identifier**
- **Trade name: VALVE GUARD**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Fuel additive
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MOTOREX AG
Bern-Zürich-Strasse 31, Postfach
CH-4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

A1 Accessory Imports
60-62 Burchill St.
Loganholme
4129 QLD
Australia
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Flam. Liq. 4 H227 Combustible liquid.
Eye Dam. 1 H318 Causes serious eye damage.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**
 
GHS05 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)
Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Distillates (petroleum), hydrotreated light
- **Hazard statements**
H227 Combustible liquid.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.

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- P102 Keep out of reach of children.
 P103 Read label before use.
 P210 Keep away from flames and hot surfaces. No smoking.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

- AUH066 Repeated exposure may cause skin dryness or cracking.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

EC number: 920-360-0	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Asp. Tox. 1, H304	≥10-≤50%
EC number: 925-653-7	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Asp. Tox. 1, H304	≥25-≤50%
CAS: 7491-09-0 EINECS: 231-308-5	Potassium 1,2-bis(2-ethylhexyloxycarbonyl) ethanesulphonate Eye Dam. 1, H318; Skin Irrit. 2, H315	≥3-<10%
CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2	Distillates (petroleum), hydrotreated light Asp. Tox. 1, H304; Flam. Liq. 4, H227	2.5-7.5%

- **Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.

For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Fire Fighting Measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤50°C
Keep container tightly sealed.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

7491-09-0 Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate

Oral	DNEL/general population/Systemic effects/Long-term	3.75 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	7.5 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	3.75 mg/kg/24h (consumer)

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· **PNECs****7491-09-0 Potassium 1,2-bis(2-ethylhexyloxy-carbonyl)ethanesulphonate**

PNEC / Aquatic organisms / Freshwater	0.0066 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.00066 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	122 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	0.525 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	0.0525 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	0.101 mg/kg (terrestrial organisms)

· **Additional information:** The lists valid during the making were used as basis.· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

safety goggles

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **General Information**· **Appearance:**· **Form:**

Fluid

· **Colour:**

Yellow

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**· **Melting point/freezing point:**

Undetermined.

· **Initial boiling point and boiling range:**

>160 °C (DIN EN ISO 3405)

· **Flash point:**

>61 °C

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· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Explosive properties:	Not determined.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	<20.5 mm ² /s @ 40 °C
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

Oral	LD50	>4,150 mg/kg (rat) (OECD 423)
Dermal	LD50	>1,700 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4h	>5.28 mg/l (rat) (OECD 403)

7491-09-0 Potassium 1,2-bis(2-ethylhexyloxy)ethanesulphonate

Oral	LD50	2,100-3,000 mg/kg (rat)
	NOAEL	750 mg/kg/24h (rat)
Dermal	LD50	10,000 mg/kg (rabbit)

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	5,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	5.28 mg/l (rat)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m ³ (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

12 Ecological Information

· Toxicity

· Aquatic toxicity:

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

EL50	1,000 mg/l/72h (<i>Pseudokirchnerella subcapitata</i>)
EL0	1,000 mg/l/48h (<i>Daphnia Magna</i>)
NOELR	5,000 mg/l/21d (<i>Brachydanio rerio</i>)

7491-09-0 Potassium 1,2-bis(2-ethylhexyloxy)ethanesulphonate

LC50	49 mg/l/96h (fish)
LC0	20 mg/l/96h (fish)
LC50	49 mg/l/48h (fish)
LC50	49 mg/l/72h (fish)
LC50	24 mg/l/24h (fish)
EC50	24.8-38.7 mg/l/24h (aquatic invertebrates)
EC10	12.4-34.3 mg/l/72h (algae / cyanobacteria)
EC50	39.3-128.5 mg/l/72h (algae / cyanobacteria)
EC50	6.6-10.3 mg/l/48h (aquatic invertebrates)

64742-47-8 Distillates (petroleum), hydrotreated light

LL50	2-5 mg/l/96h (fish)
LL50	2-5 mg/l/48h (fish)
LL50	5-17 mg/l/24h (fish)
EL50	1.4 mg/l/48h (aquatic invertebrates)
EL50	4.6 mg/l/24h (aquatic invertebrates)
	1-3 mg/l/24h (algae / cyanobacteria)
EL50	1-3 mg/l/72h (algae / cyanobacteria)
EL50	0.81-0.89 mg/l/21d (aquatic invertebrates)
NOELR	1.22 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)

· **Persistence and degradability** No further relevant information available.

· Behaviour in environmental systems:

· Bioaccumulative potential

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

Biodegradability	60.7 % (28d) (Biodegradability)
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7491-09-0 Potassium 1,2-bis(2-ethylhexyloxy)ethanesulphonate

Partition coefficient	1.998 [---] (log Kow) (Bioaccumulation)
Biodegradability	91.1 % (28d) (Biodegradability) (OECD 310)

· **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|---|
| · UN-Number | |
| · ADG, IMDG, IATA | Not classified as hazardous for transport |
| · UN proper shipping name | |
| · ADG, IMDG, IATA | Not classified as hazardous for transport |
| · Transport hazard class(es) | |
| · ADG, ADN, IMDG, IATA | |
| · Class | Not classified as hazardous for transport |
| · Packing group | |
| · ADG, IMDG, IATA | Not classified as hazardous for transport |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not classified as hazardous for transport |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Industrial Chemicals**

7491-09-0	Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate
64742-47-8	Distillates (petroleum), hydrotreated light
64742-94-5	Solvent naphtha (petroleum), heavy arom.
29190-28-1	2,4-bis(xylylazo)resorcinol

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91-20-3	naphthalene	
· Standard for the Uniform Scheduling of Medicines and Poisons		
91-20-3	naphthalene	S6, S10
· Australia: Priority Existing Chemicals		
None of the ingredients is listed.		

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

- **purity requirement**
- **Relevant phrases**
 H227 Combustible liquid.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Contact:**
- **Abbreviations and acronyms:**
 Flam. Liq. 4: Flammable liquids – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**

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