



Safety data sheet

Revision: 10-02-2014
Replaces: 01-06-2012
Version: 02.00/GBR

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

1.1. Product identifier

Trade name: VKG 1

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

Recommended uses: Fat.

1.3. Details of the supplier of the safety data sheet

Supplier: SKF MAINTENANCE PRODUCTS
Postboks 1008
NL-3430 Nieuwegein
The Netherlands
Tel: +31 30 6307200
Fax: +31 30 6307205
Email: sebastien.david@skf.com
Contact person: Sébastien David

1.4. Emergency telephone number

0870 600 6266 (UK only) Only available to health professionals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

DPD-classification (Directive 1999/45/EC): R52/53

CLP-classification (Regulation (EC) No 1272/2008): Aquatic Chronic 3;H412

Please see section 16 for the full text of R-phrases and H-phrases.

Most serious harmful effects: Harmful to aquatic life with long lasting effects.
May cause slight irritation to the skin and eyes. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking. Persons with a known allergy to reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) may exhibit an allergic response to the product.

Not flammable, but combustible.

2.2. Label elements

H-phrases: Harmful to aquatic life with long lasting effects.(H412)

Supplemental information: Contains reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Registration number	CAS/EC Number	Substance	DSD-classification (Directive 67/548/EEC)/CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
.	12001-85-3-D	Naphthenic acids, zinc salts	Xi;R36/38 N;R51/53	2,5-5	.
.	234-409-2	.	Eye Irrit. 2;H319 Skin Irrit. 2	.	.
.	.	.	;H315 Aquatic Chronic 2;H411	.	.
01-211949362	.	Reaction products of	Xn;R22 Xi;R41 R43 N;R51/53	0,1-1	.
0-38-XXXX	-	bis(4-methylpentan-2-yl)	Acute Tox. 4;H302 Eye Dam. 1;H318 Skin Sens. 1	.	.
.	931-384-6	dithiophosphoric acid with	;H317 Aquatic Chronic 2;H411 Flam. Liq. 3;H226	.	.
.	.	phosphorus oxide,	.	.	.
.	.	propylene oxide and amines,	.	.	.
.	.	C12-14-alkyl (branched)	.	.	.

Please see section 16 for the full text of R-phrases and H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.
Skin:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eyes:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Other information:	When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking. The product contains small amounts of reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). Persons with a known allergy may exhibit an allergic response to the product.

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

No special immediate treatment required. Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Not flammable, but combustible. Can generate harmful flue gases containing carbon monoxide in the event of fire.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop leak if this can be done without risk. Provide adequate ventilation. Smoking and naked

For non-emergency personnel:	flames prohibited. Wear gloves. Wear safety goggles if there is a risk of eye splash.
For emergency responders:	In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work. See item 8 for information about personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area. Store at temperatures below 50 °C. Do not store with the following: Oxidisers.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Legal basis:	EH40/2005 Workplace exposure limits incl. supplement from October 2007.
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Contains no substances subject to reporting requirements.

8.2. Exposure controls

Appropriate engineering controls:	Wear the personal protective equipment specified below. See also section 7.1.
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Personal protective equipment, eye/face protection:	Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.
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Personal protective equipment, skin protection:	Wear gloves. Type of material: Nitrile rubber Penetration time: >8 hours. Gloves must conform to EN 374.
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Personal protective equipment, respiratory protection:	Not required.
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In case of insufficient ventilation: Wear respiratory protective equipment. Filter type: A/ P2.

Environmental exposure controls:	Ensure compliance with local regulations for emissions.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Fat/ Paste
Colour:	Yellowish brown/Tan
Odour:	Mineral oil.
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	> 150 °C
Evaporation rate:	No data
Flammability (solid, gas):	No data

Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	< 1 g/cm ³ (25 °C)
Solubility:	Insoluble in the following: Water.
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Oxidisers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Oxidisers.

10.6. Hazardous decomposition products

Can generate harmful flue gases containing carbon monoxide in the event of fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	Ingestion of large quantities may cause discomfort. The product does not have to be classified. Test data are not available. 12001-85-3-D: Rat: LD50 = 4920 mg/kg ()
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking. The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	Temporary irritation. The product does not have to be classified. Test data are not available.
Respiratory sensitisation or skin sensitisation:	The product contains small amounts of reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). Persons with a known allergy may exhibit an allergic response to the product. The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product does not have to be classified. Test data are not available.

Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Test data are not available.

12.2. Persistence and degradability

Not expected to be easily biodegradable.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

In the event of spillage on the ground, the product will be adsorbed to earth particles. Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

Must not be released into the sewage system, drinking water supply or ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 13 02 08 other engine, gear and lubricating oils

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Absorbent/cloth contaminated with the product:
EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number

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14.2. UN proper shipping name

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14.3. Transport hazard class(es)

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14.4. Packing group

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14.5. Environmental hazards

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14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

Special provisions: Council Directive 96/82/EC (Seveso), Petroleum products: Column 2: 2500 t, Column 3: 25000 t.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Changes have been made in the following sections: 1,2,3,4,8,11,15,16

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

R-phrases: R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H-phrases: H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.
