

Product
Article No:

VBG Elektrolja
Version: 1

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Date Prepared: 3rd April 2009

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

Identification of the substance/preparation VBG Elektrolja

Use of the substance/preparation Rust dissolving, lubricating and protective spray, 400ml

Company Identification VBG GROUP SALES LIMITED

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Tel +44 1925 23 41 11
Fax +44 1925 23 42 22
Web site: www.vbggroup.com

Contact Head of engineering, e-mail: info@vbggroup.com

Emergency Phone No. Swedish Poison Centre 112 (acute), 08-33 12 31 (non-acute)

2. HAZARDS IDENTIFICATION

Important hazards

- Health/Physical hazards Extremely Flammable. Repeated exposure may cause skin dryness or cracking. May have freezing effect on the skin.
- Environmental hazards Not classified as likely to present any hazards to the environment.
- Special hazard information Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. Do not smoke. Keep out of the reach of children.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous component(s)

Ingredient	CAS Number	EC Number	%	Symbol	Risk Phrases *
Naphtha (petroleum), hydrotreated heavy **	64742-48-9	265-150-3	60 - 65	Xn	R10-65-66
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated ***	101316-72-7	309-877-7	4 - 6	None	None

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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	272-028-3	< 1	Xi	R36
n-Butane ****	106-97-8	203-448-7	14 - 16	F	R12
Propane	74-98-6	200-827-9	14 - 16	F	R12

* For a full description of R-phrases see Section 16.

** Contains < 0.1% (wt/wt) benzene (DSD Annex I Note P)

*** Contains < 3% DMSO (DSD Annex I Note L)

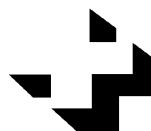
**** Contains < 0.1% butadiene (DSD Annex I Note C)

4. FIRST-AID MEASURES

General recommendations	Show this SDS to a doctor. Keep patient warm and calm. Never give anything by mouth to an unconscious person. Apply artificial respiration if necessary.
Inhalation	Remove patient to fresh air, allow to rest and keep warm. If specific symptoms are evident, seek medical attention.
Skin contact	Wash immediately with plenty of soap and water. Remove any contaminated clothing and laundry before reuse. If irritation develops seek medical advice.
Eye contact	Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open. If irritation develops seek medical advice.
Ingestion	DO NOT induce vomiting! Risk of chemical pneumonitis due to aspiration into the lungs in case of vomiting. Rinse mouth out with water, and give 1 to 2 glasses of water or milk to drink (do not give anything by mouth to an unconscious person). Seek medical attention if any symptoms occur or if large amounts ingested.
Specific equipment in workplace	Ensure washing and eyewash facilities are available.
Personal precautions	Ensure that those giving first aid treatment do not get contaminated by product spills, etc. Wear suitable protective clothing, gloves, safety goggles. See also Section 8.

5. FIRE-FIGHTING MEASURES

Extinguishing media	
- Suitable	Water spray, alcohol-resistant foam, carbon dioxide, dry powder.
- Not to be used	Water jet.
Special exposure hazards	Aerosol containers can explode when heated. Contains extremely flammable propellant gas and flammable solvents.



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Vapours may travel along the ground and collect in low or confined areas where they may encounter a source of ignition and flash back. Gives off oxides of carbon in fire.

Special precautions

If possible stop leaks. Keep fire-exposed containers cool with water spray.

Special protective equipment for fire fighters

Self-contained/compressed air fed breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing, gloves, safety goggles. See Section 8 for details. Ensure good ventilation. Avoid all sources of ignition. Avoid contact with skin and eyes.

Environmental precautions

Prevent from entering sewers or the immediate environment.

Methods for cleaning up

- on soil

Physically collect undamaged containers. Absorb spilled liquid onto inert material such as sand or commercial chemical absorbents, collect and dispose of according to local regulations. See also Section 13. Clean residues from area of spillage with water. Wash clothing and equipment after contact with spills.

- on water

Physically collect undamaged containers.

7. HANDLING AND STORAGE

Handling

Wear suitable protective clothing, gloves, safety goggles. See Section 8 for details. Ensure good ventilation. Avoid all sources of ignition. Do not ingest or breathe in fumes. Do not eat or drink whilst handling. Avoid contact skin, eyes and clothing. Wash hands after handling. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Storage

Keep cool (> 40 °C) and dry in well ventilated area out of direct sunlight. Avoid all sources of ignition and oxidising agents. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended engineering controls

Wear suitable protective clothing, gloves, safety goggles. Ensure good ventilation. Avoid all sources of ignition. Arrange for eye wash possibility.

Control parameters:

-OEL - EU ILV/IOELV

None set.



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Monitoring procedures	Not required.
Personal protection	
Always check applicability with your supplier of protective equipment.	
- Respiratory protection	In case of insufficient ventilation wear EN141 or EN405 respirator fitted with a Type A filter.
- Skin protection	Wear protective clothing as necessary.
- Eye protection	Chemical goggles or protective glasses, fitted with side shields.
Hand protection	Wear gloves made of Polyvinylalcohol, Nitrile rubber, Polyethylene/ethylene vinyl alcohol laminate or Teflon. However, since glove performance is governed by many variables it is strongly recommend that specialist advice on the selection and use of protective gloves is sought. Note: Break-through times can vary depending on thickness, use and source. Change gloves regularly.
General hygiene measures	Wash hands after handling. Launder any contaminated clothing before reuse. Clean up spills to floor or work surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid contained in aerosol
Colour	Yellow
Odour	Hydrocarbon
Density at 20°C (kg/m ³)	800
Flash point (°C)	< 0(propellant gas)
Solubility	Not soluble in water
Relative vapour density (air = 1)	> 1

Note: These are typical values and do not constitute a specification.

10. STABILITY AND REACTIVITY

Stability	Stable at room temperature.
Conditions to avoid	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. No smoking.
Materials to avoid	Keep away from strong oxidising agents.
Decomposition products	Gives off oxides of carbon in fire.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:

No test data available on product

Data on ingredients:

Naphtha (petroleum), hydrotreated heavy

The critical effect of occupational exposure to this substance are assessed to be effects on the central nervous system and irritation of the mucous membranes. Chronic toxic brain damage has been reported at an average concentration of 40 ppm during 22 years for painters. They had also been exposed to other solvents and high exposure peaks.

Skin contact with solvent naphtha as a liquid can cause defatting, irritation and contact dermatitis.

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Irritating to rabbit eyes. (OECD 405)

n-Butane

LC₅₀ Inhalation rat 4h: 658 mg/l (not harmful)

Toxicity after inhalation has been reported in mice: LC₅₀ 680 mg/l /2h

The gas may cause apathy and drowsiness through inhalation. May replace the oxygen of the air and thereby cause suffocation.

Propane

LD₅₀ Oral rat: 5000 mg/kg (not harmful)

Cholinesterase inhibitor; has narcotic effects.

The substance may have narcotic effects at high concentrations. May be hazardous, as this gas replaces the air and thereby can cause lack of oxygen. Frostbite can be caused by contact with the liquid.

Exposure hazard:

- Inhalation
May cause apathy and drowsiness through inhalation. May replace the oxygen of the air and thereby cause suffocation. May cause feelings of sickness and headaches. May cause mild irritation.
- Skin contact
Prolonged or repeated exposure may cause skin dryness or cracking. Direct spraying onto the skin may have freezing effect.
- Eye contact
May cause mild, transient irritation.
- Ingestion
May cause feelings of sickness, stomach cramps and diarrhoea. Vomiting may cause irritation to mucous membranes, oesophagus and airways. DO NOT induce vomiting! Risk of chemical pneumonitis.

Other data

Used oil may contain metal particles and oil decomposition products which can have a greater health risk than the original product.

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12. ECOLOGICAL INFORMATION

Aquatic toxicity:
No test data available on product

Test data on ingredients:

Naphtha (petroleum), hydrotreated heavy

LC₅₀ Fish 96h: 2200 mg/l Fathead minnow [*Pimephales promelas*] (not harmful)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

LC₅₀ Fish 96h: 10 - 35 mg/l Fathead minnow [*Pimephales promelas*] (harmful)

EC₅₀ Daphnia 48h: 1 - 1.5 mg/l Daphnia Magna (toxic)

n-Butane

BCF: 33.88 Log Pow: 2.89 (will not bioaccumulate)

Photochemical degradation to methyl ethyl ketone, propionaldehyde and formaldehyde

Global warming factor (GWP100): <10 carbon dioxide equivalents

Propane

LC₅₀ Fish 96h: 16.9 mg/l Fathead minnow [*Pimephales promelas*] (harmful)

EC₅₀ Daphnia 48h: 16.3 mg/l Daphnia Magna (harmful)

LC₅₀ Algae 72h: 11.3 mg/l *Skeletonema costatum* (harmful)

BCF: 13.18 Log Pow: 2.36 (will not bioaccumulate)

Global warming factor (GWP100): <10 carbon dioxide equivalents

Environmental effects:

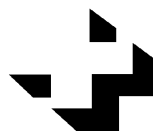
- Mobility Insoluble in water. Floats on water.
- Biodegradability Will partially biodegrade
Naphtha (petroleum), hydrotreated heavy
70% degraded in 28 days (OECD 301F)
- Bioaccumulation No data available on product.
- Bioconcentration No data available on product.

Not classified as likely to present any hazards to the environment.

13. DISPOSAL CONSIDERATIONS

Disposal of product

Dispose of as Hazardous waste via a licensed contractor ensuring that all national and local authority requirements are complied with. EWC codes 13 02 06*, 13 02 08* or 16 05 04* may be applicable.



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Disposal of packaging

Contaminated packing should be disposed of as above, according to national and local authority guidelines. Unpressurised aerosol containers are not hazardous waste and may be disposed of via recycling companies. Do not pierce or heat empty containers.

14. TRANSPORT INFORMATION



UN No. 1950
Proper shipping name AEROSOLS, flammable

Land transport: ADR
- Transport hazard label 2.1
- RID/ADR classification 2
- Classification code 5F
- LQ2: Max 1 litre per inner package (max 30 kg per outer).

Maritime transport: IMDG
- Transport hazard label 2.1
- IMO-IMDG class 2
- EmS procedures F-D, S-U
- Marine Pollutant No

Air transport: IATA
- Transport hazard label 2.1
- ICAO/IATA classification 2
- Packing instruction Y203/203 (Passenger) 203 (Cargo)

15. REGULATORY INFORMATION

EU labelling information

- Symbol(s) Extremely flammable
- R-Phrase(s) 12 Extremely flammable
66 Repeated exposure may cause skin dryness or cracking
- S-Phrase(s) 16 Keep away from sources of ignition - No smoking
23 Do not breathe vapour
24 Avoid contact with skin
51 Use only in well ventilated areas



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Specific provisions	None
Other information	<p>Contains Naphtha (petroleum), hydrotreated heavy, n-butane and propane.</p> <p>Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. No smoking. Keep out of the reach of children.</p>

16. OTHER INFORMATION

Sources of key data used	RTECS Suppliers' Safety Data Sheets	
Version number	1	
Date prepared	17.03.09	
Supersedes Version	None	
Nature of revision	First issue	
R-phrases used in document	R10	Flammable
	R12	Extremely flammable
	R36	Irritating to eyes
	R65	Harmful: may cause lung damage if swallowed
	R66	Repeated exposure may cause skin dryness or cracking

Based on EU Regulation 1907/2006

This information is in addition to any existing information. Users must ensure that the information is adequate for their purposes. Responsibility of product safety resides with VBG Group Truck Equipment AB. This Safety Data Sheet was prepared with the assistance of Amasis Konsult AB, Solna. See other reports for details of sources.

End of document
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