

Safety Data Sheet

Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

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

1.1. Product identifier

Trade name: Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

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

Recommended uses: Coating of metal.

Inadvisable uses: The product is recommended for only the above described uses.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: The Vapormatic Co. Ltd.
Address: Kestrel Way, Sowton Industrial Estate
Postcode: EX2 7NB EXETER
Country: UNITED KINGDOM
E-mail: info@vapormatic.com
Phone: 44 (0)1392 435461
Fax: 44 (0)1392 438445
Homepage: www.vapormatic.com

1.4. Emergency Telephone Number

GB: +44 1215074123 (Advice and guidance) (Around the clock)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226 STOT SE 3;H336

Most serious harmful effects: Flammable liquid and vapour. May cause drowsiness or dizziness.

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

2.2. Label elements

Pictograms



Signal word: Warning

Contains

Substance: Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics

H-phrases

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

P-phrases

P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403/233 Store in a well-ventilated place. Keep container tightly closed.
P370/378 Use water spray or carbon dioxide to extinguish.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.

Supplemental information

EUH208 Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics		919-857-5	01-2119463258-33	25 - 50%	1, 1, 1, 1	Flam. Liq. 3;H226 Asp. Tox. 1;H304 STOT SE 3;H336
Calciumbis(2-ethylhexanoat)	136-51-6	205-249-0		< 1%		Eye Dam. 1;H318 Repr. 2;H361d
2-ethylhexanoic acid, zirconium salt	22464-99-9	245-018-1	01-2119979088-21	< 0.5%		Repr. 2;H361d
Cobalt bis(2-ethylhexanoate)	136-52-7	205-250-6	01-2119524678-29	< 0.25%		Skin Sens. 1;H317 Eye Irrit. 2;H319 Repr. 2;H361f Aquatic Acute 1;H400 Aquatic Chronic 3;H412

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

1 = #Not translated#

1 = Contains less than 0,1 % Benzene

1 = #Not translated#

1 = #Not translated#

Safety Data Sheet

Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation:** If patient feels unwell move to fresh air and keep under surveillance. If the victim is unconscious, ascertain whether the victim is breathing. If breathing has stopped, apply artificial respiration. If the victim is unconscious but breathing, place in the recovery position and keep warm with blankets. Call for medical attention or ambulance.
- Ingestion:** Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!
- Skin contact:** Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Do not use solvents.
- Eye contact:** Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
- General:** If in doubt, seek medical advice. Also see para. 1

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

Pain in the eyes, redness, tears, swollen eyelids, itching Headache, dizziness, drowsiness and nausea.

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

Seek medical advice in case of discomfort. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media:** Fire can be extinguished with carbon dioxide, powder, foam or water spray.
- Unsuitable extinguishing media:** Do not use a direct water jet that could spread the fire.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling of waste gases. Combustion will generate harmful gases, as combustion residues and carbon monoxide.

5.3. Advice for fire-fighters

Cool closed containers with water. Fire will produce a thick black smoke. Products of combustion are harmful and respiratory protection is required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel:** Avoid inhalation of vapours. Remove all ignition sources and ensure sufficient ventilation.
- For emergency responders:** Use nitrile protection gloves and self-contained breathing apparatus.

6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

6.3. Methods and material for containment and cleaning up

Prevent major quantities of spillage from being discharged into the sewage system or water by banking the spillage with sand or the like and collecting it. Clean the contaminated area with a suitable cleaning agent, but do not use solvent.

6.4. Reference to other sections

Also see item 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product may be charged electrostatically. Always use underground wire when transferring from one container to another. Personnel should wear antistatic shoes and clothing. Floors should be conductive. Do not use tools which may produce sparks. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mists. Vapors may form explosive mixtures with air. Prevent the formation of flammable or explosive mixtures. Do not use this material near naked flames or any other ignition source. Electrical installations must be protected according to regulations.

7.2. Conditions for safe storage, including any incompatibilities

The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food. Keep away from ignition sources, oxidizing agents and strong acidic and basic substances. No smoking and use of open fire. No admittance to unauthorized persons. Opened containers must be carefully closed and stored upright to prevent any leakage.

7.3. Specific end use(s)

Applications is mentioned in item 1.2.

Other Information: Smoking and the consumption of food and drink are not permitted in work rooms. Personal protective equipment: Refer to section 8.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	Comment	Remarks
2-ethylhexanoic acid, zirconium salt	15m		10	Zr	
2-ethylhexanoic acid, zirconium salt	8h		5	Zr	

Legal basis: EH40/2005 Workplace exposure limits incl. supplement from October 2007.

PNEC

2-ethylhexanoic acid, zirconium salt				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,36 mg/l			
Marine water	0,036 mg/l			
Freshwater - sediment	6,37 mg/kg			
Marine water - sediment	0,637 mg/kg			
Soil	1,06 mg/kg			

Safety Data Sheet

Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

Replaces date: 08-10-2015

Revision date: 03-01-2017

Version: 2.0.0

Cobalt bis(2-ethylhexanoate)				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,51 µg/l			
Marine water - sediment	9,5 mg/kg			
Freshwater - sediment	9,5 mg/kg			
Soil	10,9 mg/kg			
Marine water	2,36 µg/l			

DNEL - workers

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	1500 mg/m ³	Long-term exposure		Systemic effects	
Dermal	300 mg/kg	Long-term exposure		Systemic effects	

2-ethylhexanoic acid, zirconium salt					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	32,97 mg/m ³	Long-term exposure		Systemic effects	
Dermal	6,49 mg/kg	Long-term exposure		Systemic effects	

Cobalt bis(2-ethylhexanoate)					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	235,1 µg/m ³	Long-term exposure		Local effects	

DNEL - general population

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	300 mg/kg	Long-term exposure		Systemic effects	
Inhalation	900 mg/m ³	Long-term exposure		Systemic effects	
Oral	300 mg/kg	Long-term exposure		Systemic effects	

2-ethylhexanoic acid, zirconium salt					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral	4,51 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	8,13 mg/m ³	Long-term exposure		Systemic effects	
Dermal	3,25 mg/kg bw/day	Long-term exposure		Systemic effects	

Cobalt bis(2-ethylhexanoate)					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	37 µg/m ³	Long-term exposure		Local effects	
Oral	55,8 µg/kg bw/day	Long-term exposure		Systemic effects	

Other Information: See above.

8.2. Exposure controls

Appropriate engineering controls: All work must be planned with a view to limit the breathing of fumes and the exposure to the skin. Work under effective process ventilation (e.g. local exhaust ventilation). If this is not possible, use respiratory protection.

Personal protective equipment, eye/face protection: Use suitable protective goggles or full face mask for protection against splashes.

Safety Data Sheet

Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

Personal protective equipment, skin protection: If possible, wear special work clothes. When spraying wear coveralls.

Personal protective equipment, hand protection: Follow the glove manufacturer's recommendations on use and replacement. Use nitrile protection gloves. A 15-mil thickness glove provides a 8 hour breakthrough-time.

Personal protective equipment, respiratory protection: Wear a breathing apparatus.

Environmental exposure controls: It must be ensured that local regulations for discharge are met.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Different.
Odour	Odour of organic solvent.
Solubility	Soluble in: Organic solvents.
Explosive properties	See explosive limits
Oxidising properties	No information available

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	33 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	0.50 - 8 %	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	600 - 700 mPas	
Odour threshold	No data	

9.2 Other information

Parameter	Value/unit	Remarks
Density	~ 1.01 g/ml	
Fire class	II-1	
Weight % organic solvents:	38-47	
VOC	462	

Other Information: Solubility in water: Insoluble in water. Fat solubility: irrelevant

SECTION 10: Stability and reactivity

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017

Version: 2.0.0

10.1. Reactivity

See below.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Ignitable at temperatures above the flash point. The fumes can ignite by e.g. a spark, a warm surface or a glow. The fumes can mix to explosive mixtures with air. At room temperature the fumes are more heavily than air and can spread along the floor.

10.4. Conditions to avoid

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

10.5. Incompatible materials

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

10.6. Hazardous decomposition products

carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

Cobalt bis(2-ethylhexanoate)

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3129mg/kg			

Ingestion of large quantities may cause gastrointestinal disorders.

Acute toxicity - dermal

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 5000mg/kg			

Cobalt bis(2-ethylhexanoate)

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg			

Organic solvents may be absorbed through skin. Organic solvents have a degreasing effect on the skin.

Acute toxicity - inhalation

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	> 5mg/l			

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

Protracted inhalation in high concentrations may cause permanent damage to the central nervous system.

Skin corrosion/irritation: Prolonged or repeated skin contact will decrease skin and may cause irritation.

Serious eye damage/eye irritation: Splashing into eyes may cause smarting/irritation.

Germ cell mutagenicity: Would not be expected germ cell mutagen

Carcinogenic properties: No data.

Reproductive toxicity: Would not be expected to be a reproductive toxicant.

Single STOT exposure: May cause drowsiness or dizziness.

Repeated STOT exposure: No data

Aspiration hazard: Test data are not available.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Onchorhynchus mykiss	96 h	LC50	> 1000mg/l			
Acute Daphnia	Daphnia magna	48 h	EC50	> 1000mg/l			
Acute algae	Scenedesmus subspicatus	72 h	IC50	> 1000mg/l			

Cobalt bis(2-ethylhexanoate)

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae		72 h	IC50	528 mg/l			

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

The product is insoluble in water and will spread out on the surface.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No information available

Other Information

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

Do not dispose of this product in drains, watercourses, or on the ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Product residues are classified as chemical waste.

Category of waste: Waste-code: 08 01 11

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	Tunnel restriction code:	D/E
Other Information:			

Inland water ways transport (ADN)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Environmentally hazardous in tank vessels:		Other Information:	

Sea transport (IMDG)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3		
EmS:	F-E, S-E	IMDG Code segregation group:	- None -

Other Information:

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3	Other Information:	

14.6. Special precautions for user

Irrelevant.

Safety Data Sheet

Paint VLB50**, VLB51**, VLB58**, VLB60**, VLB70**

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

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

Irrelevant.

SECTION 15: Regulatory information

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

Special Provisions:

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	08-10-2015	GK	
2.0.0	03-01-2017	GK	3, 8, 11, 12, 13

Abbreviations: DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.

References to literature and data sources: REACH: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. DPD: Directive of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations. CLP: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

Other Information: The information in this Material Safety Data Sheet is based upon our knowledge and on European Union legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product. The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

Training advice: The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

List of relevant H-statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.

Safety Data Sheet

Paint VLB50, VLB51**, VLB58**, VLB60**, VLB70****

Replaces date: 08-10-2015

Revision date: 03-01-2017
Version: 2.0.0

H412 Harmful to aquatic life with long lasting effects.

Document language: GB