Safety Data Sheet

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

Replaces date: 06/01/2021

Revision date: 25/08/2022
Version: 6.0.0

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

1.1. Product identifier

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

Unique Formula Identifier (UFI): 35C0-60YP-W00H-U4WJ

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:	EFApaint A/S
Address:	Energivej 13
Zip code:	DK-6700
City:	Esbjerg
Country:	DENMARK
E-mail:	info@efapaint.dk
Phone:	0045 75 12 86 00
Fax:	0045 75 45 33 68
Homepage:	www.efapaint.dk

Distributor

Company:	The Vapormatic Co. Ltd.
Address:	Kestrel Way, Sowton Industrial Estate
Zip code:	EX2 7NB
City:	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

(0044) 111 (NHS 111)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226 Skin Sens. 1A;H317 STOT SE 3;H336

Most serious harmful effects: Flammable liquid and vapour. May cause an allergic skin reaction. May cause drowsiness or dizziness.

2.2. Label elements

Pictograms

Signal word: Warning

Contains

Substance: Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics; Cobalt bis(2-ethylhexanoate);

Hazard Statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves.
P261	Avoid breathing vapours/spray.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370/378	Use water spray or carbon dioxide to extinguish.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

The product does not contain any endocrine disruptors, PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ 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	Flam. Liq. 3;H226 Asp. Tox. 1;H304 STOT SE 3;H336 EUH066 LD50 LD50 (Acute toxicity - oral): > 5000 mg/kg bw LD50 (Acute toxicity - dermal): > 5000 mg/kg bw LC50 (dust/mist) (Acute toxicity - inhalation): > 5 mg/l
Cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29	< 0.25 %		Skin Sens. 1A;H317 Eye Irrit. 2;H319 Repr. 1B;H360D Aquatic Acute 1;H400 Aquatic Chronic 3;H412 LD50 (Acute toxicity - oral): 3129 mg/kg bw LD50 (Acute toxicity - dermal): > 2000 mg/kg bw

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

1 = Contains less than 0,1 % Benzene

Ingredient comments: The CLP Annex VI classification of Titanium dioxide (CAS 13463-67-7) does not apply to this mixture according to CLP Annex VI Note 10.

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 lukewarm water (preferably using eye wash equipment) for at least 15 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: Firefighting 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 firefighters

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.

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: Contains no substances subject to reporting requirements

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

PNEC

Cobalt bis(2-ethylhexanoate), cas-no 136-52-7				
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, EC-no 919-857-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	871 mg/m3	Long-term exposure		Systemic effects	
Dermal	208 mg/kg	Long-term exposure		Systemic effects	
Cobalt bis(2-ethylhexanoate), cas-no 136-52-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	235,1 µg/m3	Long-term exposure		Local effects	

DNEL - general population

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics, EC-no 919-857-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	125 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	185 mg/m3	Long-term exposure		Systemic effects	
Oral	125 mg/kg	Long-term exposure		Systemic effects	
Cobalt bis(2-ethylhexanoate), cas-no 136-52-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	37 µg/m3	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.

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.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	0.50 - 8 vol%	
Flash Point	33 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	

Kinematic viscosity	No data	
Viscosity	600 - 700 mPas	
Partition coefficient n-octonol/water	No data	
Vapour pressure	No data	
Density	~ 1.01 g/ml	
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Fire class	II-1	
Weight % organic solvents:	38-47	
VOC (G/liter)	462	

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

SECTION 10: Stability and reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics, EC-no 919-857-5

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

Cobalt bis(2-ethylhexanoate), cas-no 136-52-7

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

Ingestion of large quantities may cause gastrointestinal disorders.

Acute toxicity - dermal

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics, EC-no 919-857-5

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

Cobalt bis(2-ethylhexanoate), cas-no 136-52-7

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

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, EC-no 919-857-5

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

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

Skin corrosion/irritation: Repeated exposure may cause skin dryness or cracking.

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

Respiratory sensitisation or skin sensitisation: May cause an allergic skin reaction.

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 known hazards.

Aspiration hazard: Are not classified with H304 for aspiration hazard due to the viscosity.

11.2. Information on other hazards

Endocrine disrupting properties: No known information.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C9-C11 n-alkanes, isoalkanes, cyclic compounds, <2% aromatics, EC-no 919-857-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Onchorhynchus mykiss	96 h	LC50	> 1000 mg/l			
Acute Daphnia	Daphnia magna	48 h	EC50	> 1000 mg/l			
Acute algae	Scenedesmus subspicatus	72 h	EL50	> 1000 mg/l			

Cobalt bis(2-ethylhexanoate), cas-no 136-52-7

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. Endocrine disrupting properties

No known information.

12.7. Other adverse effects

No information available

Other Information

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 number or ID number:	1263	**14.4. Packing group:**	III
14.2. UN proper shipping name:	PAINT	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	**Tunnel restriction code:**	D/E

Inland water ways transport (ADN)

14.1. UN number or ID number:	1263	**14.4. Packing group:**	III
14.2. UN proper shipping name:	PAINT	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN number or ID number:	1263	**14.4. Packing group:**	III

14.2. UN proper shipping name:	PAINT	**14.5. Environmental hazards:**	The product is not a Marine Pollutant (MP).
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 -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	1263	**14.4. Packing group:**	III
14.2. UN proper shipping name:	PAINT	**14.5. Environmental hazards:**	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		

14.6. Special precautions for user

Irrelevant.

14.7. Maritime transport in bulk according to IMO instruments

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
6.0.0	25/08/2022	GK	2, 3, 8, 9, 11, 12
5.0.0	06/01/2021	GK	1
4.0.0	03/02/2020	GK	2, 3, 11, 13, 14, 16
3.0.0	13/12/2017	GK	11
2.0.0	03/01/2017	GK	3, 8, 11, 12, 13
1.0.0	08/10/2015	GK	

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. 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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

List of relevant EUH-statements

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Country: GB