Safety Data Sheet

Spray VLB52**

Replaces date: 08-10-2015

Revision date: 07-03-2017
Version: 2.0.0

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

1.1. Product identifier

Trade name: Spray VLB52**

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

Post code: 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: Aerosol 1;H222 Aerosol 2;H229 Acute Tox. 4;H312/332 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H336 Aquatic Chronic 3;H412

Most serious harmful effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Pictograms

Signal word: Danger

Contains

Substance: acetone; Xylene

H-phrases

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H312/332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

P-phrases

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P410/412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P280	Wear protective gloves/eye protection/face protection.
P501	Dispose of contents/container in accordance to local regulations.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours/spray.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.

Only self-contained breathing apparatus must be used as the product contains volatile liquids the vapors of which are not detained by carbon filters.

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

acetone	67-64-1	200-662-2	01-2119471330-49	25 - 50%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
propane	74-98-6	200-827-9		25 - 50%		Flam. Gas 1;H220
Xylene	1330-20-7	215-535-7	01-2119488216-32	10 - 25%		Flam. Liq. 3;H226 Acute Tox. 4;H312 Skin Irrit. 2;H315 Acute Tox. 4;H332
n-butyl acetate	123-86-4	204-658-1		2.5 - 10%		Flam. Liq. 3;H226 STOT SE 3;H336
butane	106-97-8	203-448-7		2.5 - 10%		Flam. Gas 1;H220
Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.	64742-94-5	918-811-1	01-2119463583-34	2.50 - 10%		Asp. Tox. 1;H304 STOT SE 3;H336 Aquatic Chronic 2;H411
ethylbenzene	100-41-4	202-849-4		< 2.5%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Acute Tox. 4;H332 STOT RE 2;H373

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

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.

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
acetone	8h	500	1210		
acetone	15m	1500	3620		
Xylene	8h	50	220		BMGV, Sk
Xylene	15m	100	441		BMGV, Sk
butane	8h	600	1.450		
butane	15m	750	1.810		
n-butyl acetate	8h	150	724		
n-butyl acetate	15m	200	966		
ethylbenzene	8h	100	441		Sk
ethylbenzene	15m	125	552		Sk

BMGV = Biological monitoring may be appropriate and Biological Monitoring Guidance Value is listed in Table 3 (Occupational Exposure Limits)

Sk = Can be absorbed throuh skin

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

PNEC

acetone

Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	10,6 mg/l			
Soil	33,3 mg/l			
Marine water	1,06 mg/l			

Xylene

Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,327 mg/l			
Marine water	0,327 mg/l			
Freshwater - sediment	12,46 mg/kg			
Marine water - sediment	12,46 mg/kg			
Soil	2,31 mg/kg			

n-butyl acetate

Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater - sediment	0,981 mg/kg			
Marine water - sediment	0,0981 mg/kg			
Soil	0,0903 mg/kg			
Marine water	0,018 mg/l			
Freshwater	0,18 mg/l			

ethylbenzene

Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,1 mg/l			
Marine water	0,01 mg/l			
Freshwater - sediment	13,7 mg/kg			
Soil	2,68 mg/kg			

DNEL - workers

acetone

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	1210 mg/m3	Long-term exposure			

Inhalation	2420 mg/m3	Acute / short-term exposure			
Dermal	186 mg/kg	Long-term exposure			

Xylene

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	289 mg/m3	Acute / short-term exposure		Systemic effects	
Inhalation	289 mg/m3	Acute / short-term exposure		Local effects	
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	77 mg/m3	Long-term exposure		Systemic effects	

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	150 mg/m3	Long-term exposure		Systemic effects	
Dermal	12,5 mg/kg bw/day	Long-term exposure		Systemic effects	

n-butyl acetate

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	960 mg/m3	Acute / short-term exposure		Local effects	
Inhalation	480 mg/m3	Long-term exposure		Systemic effects	
Inhalation	960 mg/m3	Acute / short-term exposure		Systemic effects	

ethylbenzene

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	77 mg/m3	Long-term exposure		Systemic effects	
Inhalation	293 mg/m3	Acute / short-term exposure		Local effects	

DNEL - general population

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	7,5 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	32 mg/m3	Long-term exposure		Systemic effects	
Oral	7,5 mg/kg bw/day	Long-term exposure		Systemic effects	

Biological threshold values: See above.

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: Use 4H protection gloves. Break-through time is 8 hours. Cotton gloves may be used under, and a disposable glove over the 4H glove. Follow the glove manufacturer's recommendations on use and replacement.

Personal protective equipment, respiratory protection: Use compressed-air full face mask.

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	< 21 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	1.80 - 8.40	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octonol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Parameter	Value/unit	Remarks
Density	1 g/ml	
Fire class	I-1	
Weight % organic solvents:	75	
VOC	750	

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 toxicological effects

Acute toxicity - oral

acetone

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5800 mg/kg		OECD 401	

Xylene

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

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg		OECD 401	

n-butyl acetate

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		4700mg/kg			

Ingestion of large quantities may cause gastrointestinal disorders.

Acute toxicity - dermal

acetone

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 15800mg/kg			

Xylene

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		3200 mg/kg			

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg		OECD 402	

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

Acute toxicity - inhalation

acetone

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	76 mg/l			

Xylene

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	21.7 mg/l			

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50		> 4688mg/m3		OECD 403	

Protracted inhalation in high concentrations may cause permanent damage to the central nervous system. Inhalation of vapors may cause symptoms of poisoning such as memory and concentration difficulties, abnormal tiredness, irritability and, in extreme cases, unconsciousness.

Skin corrosion/irritation: Prolonged or repeated skin contact will degrease 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

acetone

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	8800 mg/l			
Acute fish	Onchorhynchus mykiss	96 h	LC50	5540 mg/l			

Xylene

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae	Pseudokirchneriella subcapitata	72 h	EC50	2.2mg/l		OECD 201	

Acute Daphnia	Daphnia magna	24 h	IC50	1mg/l		OECD 202	
Acute fish	Oncorhynchus mykiss	96 h	LC50	2.6mg/l		OECD 203	

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute Daphnia	Daphnia magna	48 h	EL50	3 - 10mg/l			
Acute algae	Pseudokirchneriella subcapitata	72 h	NOELR	2.5mg/l			
Acute algae	Pseudokirchneriella subcapitata	72 h	EL50	11mg/l			
Acute fish	Onchorhynchus mykiss	96 h	LL50	2 - 5mg/l			

n-butyl acetate

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae		72 h	EC50	6477mg/l			
Acute daphnia	Daphnia magna	48 h	EC50	44mg/l			

ethylbenzene

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	290mg/l			
Acute fish	Cyprinodon variegatus	96 h	LC50	88mg/l			

12.2. Persistence and degradability

Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		50%			

n-butyl acetate

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d	BOD	98%		BOD:ThOD	

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

Do not dispose of this product in drains, watercourses, or on the ground. This product is classified as hazardous to the environment according to the calculation method. Please see par. 2 and 3 for further information.

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: 16 05 04

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:	AEROSOLS	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Hazard identification number:		**Tunnel restriction code:**	D
Other Information:			

Inland water ways transport (ADN)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:	AEROSOLS	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Environmentally hazardous in tank vessels:		**Other Information:**	

Sea transport (IMDG)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:	AEROSOLS	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2.1	**Environmental Hazardous Substance Name(s):**	
Hazard label(s):	2.1		
EmS:	F-D, S-U	**IMDG Code segregation group:**	- None -
Other Information:			

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:	AEROSOLS, FLAMMABLE	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1	**Other Information:**	

14.6. Special precautions for user

Irrelevant.

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	07-03-2017	GK	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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

H312/332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Document language: GB