

Spectrum Vialine Toluene Free Paint



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

1.1. Product identifier

Product Name	Spectrum ViaLine Toluene Free Paint
Product Inclusion	This document covers all colour variants within the Spectrum ViaLine Toluene Free Paint range.
Container Size	20Kg

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

Identified Uses	Coloured paint, solvent-based, used for road marking Professional use only
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Start Traffic Ltd sales@starttraffic.uk 01905 794 875
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 1905 794 875
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation EC1272/2008 and amendments

- Flammable liquids –Hazard category 2 - H225
- Serious eye danger, eye irritation – Hazard category 2 – H319
- Specific Target Organ Toxicity –Single Exposure – Hazard category 3, narcosis – H336
- Reproductive toxicity, additional category, effect on or via lactation – H362
- Hazardous to the aquatic environment – Chronic hazard category 3 – H412

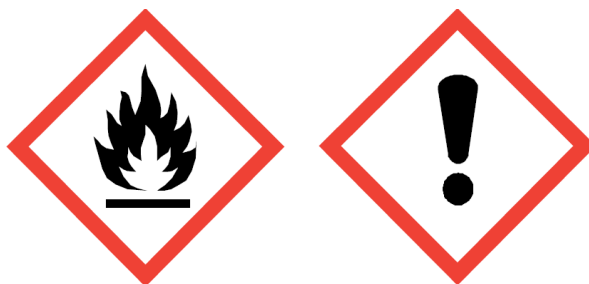
Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- R11 – Highly flammable
- R52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R66 – Repeated exposure may cause skin dryness or cracking
- R67 - Vapours may cause drowsiness and dizziness

2.2. Label Elements

Hazard pictograms

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Signal word	Danger
Supplemental label information	EUH 066 – Repeated exposure may cause skin dryness or cracking
Hazardous component(s) for labelling	Ethyl acetate – Acetone
H-statement(s)	H225 - Highly flammable liquid and vapour H319 - Cause serious eye irritation H336 - May cause drowsiness or dizziness H362 - May cause harm to breast-fed children H412 - Harmful to aquatic life with long lasting effects
P-statement(s)	P210 - Keep away from heat/sparks/open flames/hot surfaces – no smoking P243 - Take precautionary measures against static discharge P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container in accordance with local and national regulation

2.3. Other hazards

Heavier than air, vapours can spread along the ground with possibility of remote ignition.

The product is not classified as PBT or vPvB (REACH- Annex XIII)

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Dangerous component(s)

Ingredient	N°CAS N° CE N° Index N° Enregistrement REACH	Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29-xxxx	R10 R66 R67	> 10 - < 20
		Flam. Liq. 3 – H226 STOT SE 3 – H336	
Acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49-xxxx	F- R11 Xi – R36 R66 R67	> 1 - < 10
		Flam. Liq. 2 – H225 Eye Irrit. 2 – H319 STOT SE 3 – H336	
Ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-xxxx	F- R11 Xi – R36 R66 R67	> 1 - < 5

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		Flam. Liq. 2 – H225 Eye Irrit. 2 – H319 STOT SE 3 – H336	
Alkanes, C14-C17, chloro	85535-85-9 287-477-0 602-095-00-x 01-2119519269-33-xxxx	N – R50/53 R64 R66 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410 Lact – H362	> 1 - < 3

The full text for all H and R phrases are displayed in section 16

SECTION 4: First aid measures

Take off all contaminated clothing immediately.
Never give anything by mouth to an unconscious person.

4.1. Description of first aid measures

In case of inhalation: Move immediately person to fresh air and keep him calm. See rapidly a physician

In case of skin contact: Wash off immediately with soap and water, at last 15 minutes. If skin irritation persists, consult a doctor.

In case of eye contact: Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. If the person uses contact lenses, remove them with caution. Quickly consult a specialist if irritation persists.

In case of ingestion: Do not induce vomiting. Get medical attention immediately.

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

Irritant effects, drowsiness, dizziness, narcosis, nausea, headache, vision impairment
Drying and defatting of skin

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, CO2, dry powder.
Extinguishing media which must not be used for safety reasons high volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting May be releases in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.
The vapour is heavier than air and will spread along the ground
Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Runoff to sewer may create fire or explosion hazard.

5.3. Advice for firefighters

Special protective equipment for firefighting. Wear full firefighting protective clothing and self-contained breathing apparatus.
Use water spray to keep fire-exposed containers cool.
Do not allow fire extinguishing water to contaminate surface or groundwater systems.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-first aid worker

Evacuate the danger zone, follow emergency precautions.
Avoid contact with the material, do not breath vapors or aerosols, if possible, provide additional ventilation.
Personal protection equipment must be used (see section 8).

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Remove all source of ignition -

For first aid worker

Eliminate all ignition sources. Do evacuation of surrounding areas.

Do not take action without proper training and emergency equipment.

Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

Take all precautions to prevent the accumulation of electrostatic charge.

6.2. Environmental precautions

Do not allow to enter drains, sewers surface or ground water.

Use appropriate containment to avoid environmental contamination.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterway, soil or air).

6.3. Methods and material for containment and cleaning up

Stop leak if without risk – Move containers from spill area –Prevent entry into sewers, surface water

Larger quantities: remove mechanically (pumping)

Smaller quantities: soak up with non-combustible absorbent material (e.g vermiculite, sand,..) and place in container for disposal in accordance with regulations.

Contaminated absorbent material and wash waters may pose the same hazards as the spilled product.

6.4. Reference to other sections

See section 7 for information on safe handling

See section 8 for information on personal protection equipment

See section 13 for disposal information

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Observe all label precautions – use appropriate Personal protective equipment (section 8 -)

Avoid breathing vapour/dust/aerosol – Avoid contact with skin

Keep away from heat and sources of ignition - Take all precautions to prevent the accumulation of electrostatic charge.

Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and used.

Worker should wash hands and face before eating, drinking and smoking.

Keep in the original container and kept tightly closed when not in use.

Warning: vapours are heavier than air.

Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated place and keep container tightly closed. (5°C to 25°C), away from food and drink

Store in accordance with local regulations

Keep away from sources of ignition

Take precautionary measures against electrostatic loading.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Pay attention to the special requirements of your local authorities for storing dangerous goods.

Store only in the original receptacle with suitable labels.

7.3. Specific and uses

No other additional special end use are anticipated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Ingredients with limit values that requires monitoring at the workplace

Ethyl acetate - VME = 400 ppm – 1400 mg/m³ (France) - TWA = 400 ppm - 1400 mg/m³

n-butyl acetate – VME = 1500 ppm - 710 mg/m³ (France)

Acetone VME = 500 ppm – 1210 mg/m³ (France)

VME = mean exposure 8 hours/day – 5 days/week

DNEL – Worker

Substance	Inhalation Short exposure	Inhalation Long exposure	Dermal Long exposure
n-butyl acetate	960 mg/m ³ (es-el)	480 mg/m ³ (es-el)	No data available
Ethyl acetate	1468 mg/m ³ (es-el)	734 mg/m ³ (es-el)	63 mg/kg bw/d (es)
Acetone	2420 mg/m ³ (es)	1210 mg/m ³ (es)	186 mg/kg bw/d (es)
Alkanes C14-C17, chloro	No data available	1.6 mg/m ³ (es)	11.5 mg/kg bw/d (es)

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DNEL - Population

Substance	Inhalation	Inhalation	Dermal	Ingestion
	Long exposure	Short exposure	Long exposure	Exposition Long term
n-butyl acetate	102.34 mg/m ³ (es-el)	859.7mg/m ³ (es-el)	No data available	No data available
Ethyl acetate	367mg/m ³ (es)	734 mg/m ³ (es-el)	37 mg/kg bw/c (es)	4.5 mg/kg bw/d (es)
Acetone	32 mg/m ³ (es)	No data available	62 mg/kg bw/c (es)	62 mg/kg bw/d (es)
Alkanes C14-C17, chloro	0.4 mg/m ³ (es)	No data available	5.75 mg/kg bw/d (es)	0.115 mg/kg bw/d(es)

*(es) :systemic effect - *(el) : local effect

PNEC: Predicted No Effect Concentration

Substance	Fresh water (Mg/l)	Marine water ((mg/l)	Sediment Fresh water (mg/kg)	Sediment Marine water (mg/kg)	STP (mg/l)	SOIL (mg/kg)
n-butyl acetate	0.18	0.018	0.981	0.0981	No data available	0.0903
Ethyl acetate	0.26	0.026	0.34	0.034	No data available	0.22
Acetone	10.6	1.06	3.04	30.4	100	29.5
Alkanes C14-C17, chloro	1000	200	13	2.6	80	20

Data: ECHA (registered substances)

8.2. Exposure controls

Personal protection measures,

Provide adequate ventilation.
 Observe occupational exposure limits and minimize the risk of inhalation of dust
 Do not breathe vapours. Avoid contact with eyes and skin
 Store work clothing separately. Take off contaminated clothing immediately.
 Follow the usual good standards of occupational hygiene. After work and before eating, drinking or smoking, wash face and hands thoroughly with soap and water.
 Avoid close or long term contact with the skin
 In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on personal Protection equipment (storage, use, cleaning, maintenance, class of protection, ..) consult the information leaflet provided by the manufacturer.

Respiratory protection

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated (Filter A- EN 140-141.1432)
 Breathing apparatus in case of high concentrations

Hand Protection

Only use chemical protective gloves EN 374 [Nitril- Viton- Neoprene 45µ)
 Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has de selected.

Replace gloves immediately when torn or any change in appearance is notified (dimension, colour, flexibility,..)

Eye Protection

Tightly sealed goggles (EN 166).
 Provide eye wash fountain and safety shower closed to points of potential exposure, if it is possible

Body protection

Wear appropriate work clothing to prevent any possibility of skin contact

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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Appearance- Colour - Odour	Coloured fluid suspension – Characteristic odour
pH	Non-applicable
Boiling Point [°C]	> 50°C
Flash point	4 °C
Evaporate Rate	No data available
Solubility in water	Immiscible in water
Flammable limits	2 to 11.5 % by volume (ethyl acetate)
Vapour pressure	9 kPa 20°C
Relative vapour density (related to air)	No data available
Density	1.55 – 1.65 g/cm ³ - 20°C
Partition coefficient (n-octanol/water)	No data available
Auto ignition temperature	> 400°C
Decomposition temperature	No data available
Volatile organic Content	24 % by weight (1999/13/EC)

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

None when used as directed.

10.2. Chemical stability

Stable under normal temperature condition and recommended use

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Heat - Flames and sparks- Sunlight

10.5. Incompatible materials

Avoid contact with strong oxidizing agents, strong acids and strong bases

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

The mixture was not tested, application of the conventional method from different substances which compose it.

Acute Toxicity

Substance (s)	LD50 oral/rat	LD50 Dermique lapin	LC Inhalation
n-butyl acetate	> 10 000 mg/kg	> 5 000 mg/kg (rabbit)	Rat (4h) = 21 mg/l
Ethyl acetate	6 400 mg/kg	> 16 000 mg/kg (rabbit)	Rat (8h) = 58 mg/l
Acetone	5 800 mg/kg	> 15 800 mg/kg (rabbit)	Rat (4h) = 76 mg/l
Alkanes C14-C17, chloro	> 4 000 mg/kg	> 4 000 mg/kg(rat)	Rat (1h) = 48 g/l

This product is not classified as toxic

Skin corrosion/irritation:

Product is not classified in this hazard class
Frequent or prolonged skin contact destroys the lipoacid skin layer and may cause dermatitis

Serious eye damage- Eye irritation:

Risk of serious damage to eyes

Respiratory/ Skin sensitization:

Product is not classified in this hazard class

Specific Target organ Toxicity –

Central nervous system – loins -livers

Single exposure:

In strong concentration, vapours have a narcotic effect on the central nervous system. The gravity of the symptoms depends on the concentration of vapours and on the time of exposure

Specific Target organ Toxicity –

Skin

Repeated exposure:

Repeated exposure may cause skin dryness or cracking

CMR :

Carcinogenicity:

There are no known carcinogenic chemicals in this product

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Reproductive Toxicity: Product is not classified in this hazard class

Germ cell Mutagenicity: Product is not classified in this hazard class

The product contains a substance which can have effect on the children fed in maternal milk. It will be necessary to hold the pregnant women and the women who breast-feed her child remote from exposed areas.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: Ecological information

The mixture was not tested, application of the conventional method from different substances which compose it.

12.1. Toxicity

Substance(s)	CL50 - Fish	EC50 – Aquatic invertebrates	LC50 - Algae
n-butyl acetate	(96h) 18 mg/l	(48h) 44 mg/l	No data available
Ethyl acetate	(96h) 230 mg/l	(48h) 717 mg/l	(48h) > 3 000 mg/l
Ethyl acetateAcetone	(96h) > 5 000 mg/l	(48h) 23.5 mg/l	(48h) > 3 000 mg/l
Alkanes C14-C17, chloro	(96h) 0.1 -1 mg/l	(48h) 0.1 -1 mg/l	(72h) 0.1 -1 mg/l

Do not reject in sewers or in natural environment

Prevent the product from entering soil, natural bodies of water and sewer systems

12.2. Persistence and degradability

Substance(s)	BOD5 (gO2/g)	COD (gO2/g)	Biodegradability %	Days	Conc (mg/l)
n-butyl acetate	No data available	No data available	80	No data available	No data available
Ethyl acetate	1.36	1.69	83	14	100
Ethyl acetateAcetone	No data available	No data available	91	28	No data available
Alkanes C14-C17, chloro	No data available	No data available	No data available	No data available	No data available

12.3. Bioaccumulative potential

Product does not cause bioaccumulation

12.4. Mobility in soil

No further relevant information available

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substance

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

The product and its container must be disposed of as dangerous wastes

13.1. Waste treatment methods

Waste is hazardous. It must be disposed in accordance with the regulation after consultation of the competent local authorities and the disposal company in a suitable and licensed facility

13.2 Uncleaned packaging

Contaminated packaging should totally be emptied; it can be recycled after having been thoroughly cleaned.


Packaging which cannot be decontaminated should be disposed of like the product

Never to drill or to burn a bucket having contained flammable product, there is risk of explosion.

SECTION 14: Transport information

	ADR / RID	IMDG	IATA
14.1 N° ONU		1263	
14.2 UN proper shipping name		PAINT	
14.3 Transport hazard classe label		3	

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14.4 Packing Group	II	II	II
14.5 Dangerous for Environment	No	No	No
14.6 Special precautions for users	Tunnel restriction : D/E Limited quantities : 5L	Limited quantities : 5L	
14.7 Transport in bulk (annexe II MARPOL 73/78 and IBC code)	Non-applicable		

SECTION 15: Regulatory information

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

Ozone depleting substances: Non applicable

Persistent organic Pollutants: Non applicable

Occupational restrictions: Note for juvenile. Note for pregnant woman and nursing mother (92/85/EEC)

Regulation REACH: EC 1907/2006

Regulation CLP: EC 1272/2008 on classification, labeling and packaging for substances and mixture

Regulation EU N° 453/2010 on safety data sheets

Substances subject to restriction for certain applications (1907/2006- Annex XVII): point N° 40

Candidate substances for authorization Regulation REACH: EC 1907/2006 Annex XIV : Non applicable

Specific provisions in terms of protecting people or the environment

It is recommended to use information included in this safety data sheet as data used in risk evaluation of the local circumstances in order to establish the necessary prevention measures for the manipulation, use, storage and disposal of this product.

15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety

SECTION 16: Other information

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with the Regulation EC 1907/2006 (REACH) and the Regulation EC 453/2010 'Guide to the compilation of safety data sheets'.

Modifications on the safety data sheet

Creation of the document in accordance with regulation EC 1907/2006 and EC 1272/2008

Relevant H & R phrases from section 3

R10 - Flammable

R11 - Highly flammable

R36 - Irritating to eyes

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R64 - May cause harm to breastfed babies

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

H225 - Highly flammable liquid and vapours

H226 - Flammable liquid and vapours

H319 - Cause serious eye irritation

H336 - May cause drowsiness or dizziness

H362 - May cause harm to breast-fed children

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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H412 - Harmful to aquatic life with long lasting effects

Advice related to training

Minimal training is recommended to prevent industrial risk for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Main bibliographical sources

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms

ADR – European agreement concerning the international carriage of dangerous goods by road

IMDG – International Maritime Dangerous Goods code

IATA - International Air transport Association

COD – Chemical Oxygen Demand

BOD5 – 5-day Biochemical Oxygen Demand

LD50 – Lethal Dose 50

LC50 – Lethal concentration 50

EC50 – Effective concentration 50

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.