



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 F216 Highway Spec Acrylic Line Marking Paint
Various colours

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

Identified Uses Paint for traffic signs. For professional user only.
Uses advised against All uses not specified in this section or in section 7.3.

1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.
Railside
Northharbour Spur
Portsmouth
PO6 3TU

+44 (0) 23 9220 0606
mail@meonuk.com

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Regulation (EC) no. 1272/2008, GB (CLP)

Classification of this product has been carried out in accordance with CLP Regulation (EC) no. 1272/2008

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard,

Category 2, H411;

Flam. Liq. 2: Flammable liquids, Category 2, H225;

Lact.: Reproductive toxicity, effects on or via lactation, H362;

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure,

Category 3, H336

2.2. Label Elements

Hazard pictograms



Signal word

Danger

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Hazard statement(s)	Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Flam. Liq. 2: H225 - Highly flammable liquid and vapour Lact.: H362 - May cause harm to breast-fed children STOT SE 3: H336 - May cause drowsiness or dizziness
Precautionary statement(s)	P201: Obtain special instructions before use. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 - Take action to prevent static discharges. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 - IF INHALED: Remove person to fresh air and keep 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. P370+P378 - In case of fire: Use ABC powder extinguisher to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
Supplementary 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.
Substances that contribute to the classification	N-butyl acetate (CAS: 123-86-4); Butanone (CAS: 78-93-3); Ethyl acetate (CAS: 141-78-6); alkanes, C14-17, chloro (CAS: 85535-85-9)

2.3. Other hazards

Product contains PBT/vPvB substances: alkanes, C14-17, chloro

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical description Acrylic resin

Components

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical Name	Classification	Concentration %
CAS: 123-86-4	N-butyl acetate	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning GHS02 GHS07	5 - <15 %

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CAS: 78-93-3	Butanone	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 – Danger GHS02 GHS07	1 - <5 %
CAS: 141-78-6	Ethyl acetate	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 – Danger GHS02 GHS07	1 - <5 %
CAS: 85535-85-9	Alkanes, C14-17, chloro	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Lact.: H362; EUH066 – Warning GHS09	1 - <5 %
CAS: 77-99-6	Propylidyntrimethanol	Repr. 2: H361fd - Warning	<0,5 %

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

4.1. Description of first aid measures

General information

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

Inhalation

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

Ingestion/Aspiration

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

Skin contact

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

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Eye contact Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

Specific hazards As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for firefighters

Advice or firefighters Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC.

Additional provisions

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form and ensuring that all surfaces are connected to the ground.

6.2. Environmental precautions

Avoid at all costs any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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6.3. Methods and material for containment and cleaning up

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4. Reference to other sections

Reference to other sections

See sections 8 and 13.

SECTION 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions on safe handling

Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, spark) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibers, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for storage

Minimum Temp.: 5 °C
Maximum Temp.: 30 °C
Maximum Time.: 6 months

General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

7.3. Specific end use(s)

Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment.

Identification	Environmental limits		
N-butyl acetate CAS: 123-86-4	WEL (8h)	150 ppm	724 mg/m ³
	WEL (15 min)	200 ppm	966 mg/m ³
Butanone CAS: 78-93-3	IOELV (8h)	200 ppm	600 mg/m ³
	IOELV (STEL)	300 ppm	899 mg/m ³
Ethyl acetate CAS: 141-78-6	IOELV (8h)	200 ppm	734 mg/m ³
	IOELV (STEL)	400 ppm	1468 mg/m ³

Biological limit values:

Identification	NULL	NULL	NULL
Butanone CAS: 78-93-3	5 mg/L	Butan-2-one in urine	Post shift

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	11 mg/kg	Not applicable	11 mg/kg	Not applicable
	Inhalation	600 mg/ m ³	600 mg/ m ³	300 mg/ m ³	300 mg/ m ³
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	1161mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	600 mg/m ³	Not applicable
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	63 mg/kg	Not applicable
	Inhalation	1468 mg/m ³	1468 mg/m	734 mg/m ³	734 mg/m ³
Alkanes, C14-17, chloro EC: 287-477-0	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	47.9 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	6.7 mg/m ³	Not applicable
Propylidyntrimethanol CAS: 77-99-6 EC: 201-074-9	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	0.94 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	3.3 mg/ m ³	Not applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	Not applicable	2 mg/kg	Not applicable
	Dermal	6 mg/kg	Not applicable	6 mg/kg	Not applicable
	Inhalation	300 mg/kg	300 mg/kg	35.7 mg/m ³	35.7 mg/m ³
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	Not applicable	Not applicable	31 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	412 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	106 mg/m ³	Not applicable
Ethyl acetate	Oral	Not applicable	Not applicable	4.5 mg/kg	Not applicable

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CAS: 141-78-6 EC: 205-500-4	Dermal	Not applicable	Not applicable	37 mg/kg	Not applicable
	Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Not applicable	Not applicable	0.58 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	28.75 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	2 mg/m ³	Not applicable
Propylidynetrimehanol CAS: 77-99-6 EC: 201-074-9	Oral	Not applicable	Not applicable	0.34 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	0.34 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	0.58 mg/kg	Not applicable

PNEC:

Identification					
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	35.6 mg/L	Fresh water	0.18 mg/L	
	Soil	0.09 mg/kg	Marine water	0.018 mg/L	
	Intermittent	0.36 mg/L	Sediment (Fresh water)	0.981 mg/kg	
	Oral	Not applicable	Sediment (Marine water)	0.098 mg/kg	
Butanone CAS: 78-93-3 EC: 201-159-0	STP	709 mg/L	Fresh water	55.8 mg/L	
	Soil	22.5 mg/kg	Marine water	55.8 mg/L	
	Intermittent	55.8 mg/L	Sediment (Fresh water)	284.74 mg/kg	
	Oral	1 g/kg	Sediment (Marine water)	284.74 mg/kg	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0.24 mg/L	
	Soil	0.148 mg/kg	Marine water	0.024 mg/L	
	Intermittent	1.65 mg/L	Sediment (Fresh water)	1.15 mg/kg	
	Oral	0.2 g/kg	Sediment (Marine water)	0.115 mg/kg	
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	STP	80 mg/L	Fresh water	0.001 mg/L	
	Soil	11.9 mg/L	Marine water	0.0002 mg/L	
	Intermittent	Not applicable	Sediment (Fresh water)	13 mg/kg	
	Oral	0.01 g/kg	Sediment (Marine water)	2.6 mg/kg	


8.2. Exposure controls

General safety and hygiene measures in the workplace

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<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. For more information see subsection 7.1.


All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection

Pictogram	PPE	Remarks
 <p>Mandatory respiratory tract protection</p>	Filter mask for gases, vapours and particles	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.


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Specific protection for the hands


Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance with total reliability and has therefore to be checked prior to the application.



Ocular and facial protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.

Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1 D.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

For complete information see the product datasheet

Appearance

<i>Physical state at 20 °C</i>	Liquid
<i>Appearance</i>	Fluid
<i>Colour</i>	White
<i>Odour</i>	Characteristic
<i>Odour threshold</i>	Not applicable *

Volatility

<i>Boiling point at atmospheric pressure</i>	Not applicable *
<i>Vapour pressure at 20 °C</i>	4741 Pa
<i>Vapour pressure at 50 °C</i>	18559.54 Pa (18.56 kPa)

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<i>Evaporation rate at 20 °C</i>	Not applicable *
Product description	
<i>Density at 20 °C</i>	1648.1 kg/m ³
<i>Relative density at 20 °C</i>	1.598 – 1.698
<i>Dynamic viscosity at 20 °C</i>	Not applicable *
<i>Kinematic viscosity at 20 °C</i>	Not applicable *
<i>Kinematic viscosity at 40 °C</i>	Not applicable *
<i>Concentration</i>	Not applicable *
<i>pH</i>	Not applicable *
<i>Vapour density at 20 °C</i>	Not applicable *
<i>Partition coefficient n-octanol/water at 20 °C</i>	Not applicable *
<i>Solubility in water at 20 °C</i>	Not applicable *
<i>Solubility properties</i>	Not applicable *
<i>Decomposition temperature</i>	Not applicable *
<i>Melting point/Freezing point</i>	Not applicable *
<i>Explosive properties</i>	Not applicable *
<i>Oxidising properties</i>	Not applicable *

Flammability	
<i>Flash point</i>	11 °C
<i>Flammability (solid, gas)</i>	Not applicable *
<i>Autoignition temperature</i>	315 °C
<i>Lower flammability limit</i>	Not available
<i>Upper flammability limit</i>	Not available
Explosive	
<i>Lower explosive limit</i>	Not applicable *
<i>Upper explosive limit</i>	Not applicable *

9.2. Other information

Surface tension at 20 °C	Not applicable *
Refraction index	Not applicable *

* Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
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10.2. Chemical stability

Stability	Chemically stable under the conditions of storage, handling and use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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10.4. Conditions to avoid

Applicable for handling and storage at room temperature

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5. Incompatible materials

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6. Hazardous decomposition products

Hazardous decomposition products See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

Ingestion (acute effect)

Acute toxicity Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

Corrosivity/Irritability Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Inhalation (acute effect)

Acute toxicity Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

Corrosivity/Irritability Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Contact with the skin and the eyes (acute effect)

Contact with the skin Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.

Contact with the eyes Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

Carcinogenicity Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC alkanes, C14-17, chloro (2B); Titanium dioxide (2B); Xylene (3); Ethylbenzene (2B); Ethylbenzene (2B)

Mutagenicity Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Reproductive toxicity May cause harm to breast-fed children

Sensitizing effects

Respiratory Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

Cutaneous Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Specific target organ toxicity (STOT) - single exposure

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

Specific target organ toxicity (STOT)-repeated exposure

Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

Skin Repeated exposure may cause skin dryness or cracking.

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Aspiration hazard

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information

Non-applicable.

Specific toxicology information on substances

Identification	Acute toxicity		Genus
N-butyl acetate CAS: 123-86-4	LD50 oral	12789 mg/kg	Rat
	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23.4 mg/L (4 h)	Rat
Ethyl acetate CAS: 141-78-6	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	Not applicable	
Butanone CAS: 78-93-3	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23.5 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix)

ATE mix	Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculation method) Not applicable
Dermal	>5000 mg/kg (Calculation method) Not applicable
Inhalation	>20 mg/L (4 h) (Calculation method) Not applicable

SECTION 12: Ecological information

The experimental information related to the ecotoxicological properties of the product itself is not available.

12.1. Toxicity

Identification	Acute toxicity		Species	Genus
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	Not applicable		
	EC50	Not applicable		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Butanone CAS: 78-93-3 EC: 201-159-0	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	LC50	>0.1 - 1 (96 h)		Fish
	EC50	>0.1 - 1 (48 h)		Crustacean
	EC50	>0.1 - 1 (72 h)		Algae

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Identification	Concentration		Species	Genus
N-butyl acetate CAS: 123-86-4	NOEC	Not applicable		
	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Ethyl acetate CAS: 141-78-6	NOEC	9.65 mg/L	Pimephales promelas	Fish
	NOEC	2.4 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
N-butyl acetate CAS: 123-86-4	BOD5	Not applicable	Concentration	Not applicable
	COD	Not applicable	Period	5 days
	BOD5/COD	Not applicable	% Biodegradable	84 %
Butanone CAS: 78-93-3	BOD5	2.03 g O ₂ /g	Concentration	Not applicable
	COD	2.31 g O ₂ /g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
Ethyl acetate CAS: 141-78-6	BOD5	1.36 g O ₂ /g	Concentration	100 mg/L
	COD	1.69 g O ₂ /g	Period	14 days
	BOD5/COD	0.8	% Biodegradable	83 %

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
N-butyl acetate CAS: 123-86-4	BCF	4
	Pow Log Potential	1.78 Low
	BCF	3
Butanone CAS: 78-93-3	Pow Log Potential	0.29 Low
	BCF	30
	Pow Log Potential	0.73 Moderate

12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
N-butyl acetate CAS: 123-86-4	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.478E-2 N/m (25 °C)	Moist soil	Not applicable
Butanone CAS: 78-93-3	Koc	30	Henry	5.77 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.396E-2 N/m (25 °C)	Moist soil	Yes
Ethyl acetate CAS: 141-78-6	Koc	59	Henry	13.58 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.324E-2 N/m (25 °C)	Moist soil	Yes
Propylidynetrimethanol CAS: 77-99-6	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.357E-2 N/m (246.93°C)	Moist soil	Not applicable

12.5. Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria.

12.6. Other adverse effects

Other adverse effects Not described.

SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Code 08 01 11*
Description Waste paint and varnish containing organic solvents or other dangerous substances
Waste class (Regulation (EU) No 1357/2014) Dangerous

Type of waste (Regulation (EU) No 1357/2014) HP14 Ecotoxic, HP3 Flammable

Waste management (disposal and evaluation) Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management In accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH) the community or state provisions related to waste management are stated.
 Community legislation: Directive 2014/955/EU, Regulation (EU) No 1357/2014.

SECTION 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport.

14.1. UN number

ADR 2017 and RID 2017 UN1263
IMDG 38-16 UN1263
IATA/ICAO 2017 UN1263

14.2. UN proper shipping name

ADR 2017 and RID 2017 PAINT
IMDG 38-16 PAINT
IATA/ICAO 2017 PAINT

14.3. Transport hazard class(es)

ADR 2017 and RID 2017 3
IMDG 38-16 3
IATA/ICAO 2017 3

Transport Labels



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14.4. Packing group

ADR 2021 and RID 2017	II
IMDG 39-18	II
IATA/ICAO 2021	II

14.5. Environmental hazards

ADR 2021 and RID 2017	Yes
IMDG 39-18	Yes
IATA/ICAO 2021	Yes

14.6. Special precautions for user

ADR 2017 and RID 2021

Physico-Chemical properties	See Section 9
Limited quantities	5 L

IMDG 39-18

Special regulations	367, 163
EmS code	F-E, S-E
Physico-Chemical properties	See Section 9
Limited quantities	5 L
Segregation group	Non-applicable

IATA/ICAO 2021

Physico-Chemical properties	See Section 9
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ADR 2021 and RID 2017	Non-applicable
IMDG 38-16	Non-applicable
IATA/ICAO 2021	Non-applicable

SECTION 15: Regulatory information

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

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUID	5000	50000
E2	ENVIRONMENTAL HAZARDS	200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH)

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

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Specific provisions in terms of protecting people or the environment

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

SECTION 16: Other information

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

Texts of the legislative phrases mentioned in section 2

H336 - May cause drowsiness or dizziness.
H362 - May cause harm to breast-fed children.
H411 - Toxic to aquatic life with long lasting effects.
H225 - Highly flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) no. 1272/2008

Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Flam. Liq. 3: H226 - Flammable liquid and vapour
Lact.: H362 - May cause harm to breast-fed children
Repr. 2: H361fd - Suspected of damaging the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation
STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure

STOT SE 3: Calculation method
Lact.: Calculation method
Aquatic Chronic 2: Calculation method
Flam. Liq. 2: Calculation method (2.6.4.3)
Eye Irrit. 2: Calculation method

Advice related to training

Minimal training is recommended to prevent industrial risks 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.

Principal bibliographical sources

<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
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand

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BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol–water partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

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