



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 FloorLine F212 Line Marking Paint

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

Identified Uses Paint for traffic signs. For professional user/industrial 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

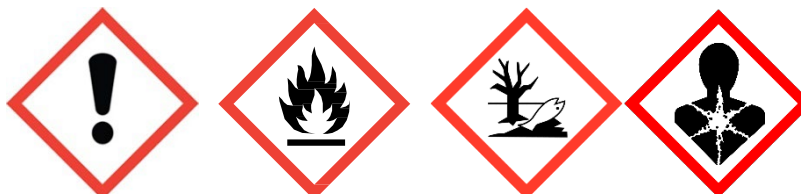
2.1. Classification of the substance or mixture

CLP Regulation (EC) no. 1272/2008
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;
Asp. Tox. 1: Aspiration hazard, Category 1, H304
Eye Irrit. 2: Eye irritation, Category 2, H319
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

CLP Regulation (EC) no. 1272/2008
Hazard pictograms



Signal word

Danger

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Hazard statement(s)	Aquatic Chronic 2: H411 - 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 Lact.: H362 - May cause harm to breast-fed children STOT SE 3: H336 - May cause drowsiness or dizziness
Precautionary statement(s)	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.
Substances that contribute to the classification	N-butyl acetate; Ethyl acetate; 2-butanone; Alkanes, C14-17, chloro, Hydrocarbons, C9, aromatics

2.3. Other hazards

Other hazards Product fails to meet PBT/vPvB criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances







Substance Non-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
		(Regulation 1272/2008)			
CAS: 123-86-4 EC: 204-658-1 REACH 01-2119485493-29-XXXX	N-butyl acetate ¹	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	ATP CLP00	 	11 - <23 %
CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5	Ethyl acetate ¹	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	ATP CLP00	 	5 - <16 %
CAS: 78-93-3 EC: 201-159-0 Index: 606-002-00-3	2-butanone ⁽¹⁾	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	ATP CLP00	 	1 - <10 %

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CAS: 85535-85-9 EC: 287-477-0 Index: 602-095-00-X REACH 01-2119519269-33-XXXX	Alkanes, C14-17, chloro¹	Lact.: H362; EUH066 - Warning	ATP ATP01		1 - <5 %
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH 01-2119488216-32-XXXX	Xylene⁽²⁾	Flam. Liq. 3: H226;	ATP CLP00	 	≤1 %
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4	Ethylbenzene⁽²⁾	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	ATP CLP06	  	<0.5 %
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH 01-2119489370-35-XXXX	Toluene⁽²⁾	Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	ATP CLP00	  	<0.1 %
CAS: EC: 918-668-5	Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w)⁽¹⁾	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger	Self-classified	   	3 - <6 %

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

⁽²⁾ Substance with a Union workplace exposure limit

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. NEVER induce swallowing by an unconscious person.

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

Request medical assistance immediately, showing the SDS of this product. 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. Keep the person affected at rest.

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.

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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.

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

Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

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 also ensuring that all surfaces are connected to the ground.

6.2. Environmental precautions

Environmental precautions

Avoid at all cost 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.

6.3. Methods and material for containment and cleaning up

Methods for 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.

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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, sparks,...) 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 fibres, 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.: 25 °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.

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		
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	IOELV (8h)	200 ppm	734 mg/m ³
	IOELV (STEL)	400 ppm	1468 mg/m ³
2-butanone CAS: 78-93-3 EC: 201-159-0	IOELV (8h)	200 ppm	600 mg/m ³
	IOELV (STEL)	300 ppm	900 mg/m ³
Xylene CAS: 330-20-7 EC: 215-535-7	IOELV (8h)	50 ppm	221 mg/m ³
	IOELV (STEL)	100 ppm	442 mg/m ³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	IOELV (8h)	100 ppm	442 mg/m ³
	IOELV (STEL)	200 ppm	884 mg/m ³
Toluene CAS: 100-88-3 EC: 203-625-9	IOELV (8h)	50 ppm	192 mg/m ³
	IOELV (STEL)	100 ppm	734 mg/m ³

DNEL (Workers):

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Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	945 - 975 mg/m ³	945 - 975 mg/m ³	465 - 495 mg/m ³	465 - 495 mg/m ³
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	48 - 78 mg/kg	Non-applicable
	Inhalation	1453 - 1483mg/m ³	1453 - 1483mg/m ³	719 - 749 mg/m ³	719 - 749 mg/m ³
2-butanone CAS: 78-93-3 EC: 201-159-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1146 - 1176 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	585 - 615 mg/m ³	Non-applicable
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	32.9 - 62.9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	-8.3 – 21.7 mg/m ³	Non-applicable
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	165 - 195 mg/kg	Non-applicable
	Inhalation	274 - 304 mg/m ³	274 - 304 mg/m ³	62 - 92 mg/m ³	Non-applicable
Ethylbenzene CAS: 1330-20-7 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	165 - 195 mg/kg	Non-applicable
	Inhalation	Non-applicable	278 - 308 mg/m ³	62 - 92 mg/m ³	Non-applicable
Toluene CAS: 108-88-3 EC: 203-625-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	369 - 399 mg/kg	Non-applicable
	Inhalation	369 - 399 mg/m ³	369 - 399 mg/m ³	177 - 207 mg/m ³	177 - 207 mg/m ³
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w) CAS: 64742-95-6 EC: 918-668-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	150 mg/m ³	Non-applicable
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	47.9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6.7 mg/m ³	Non-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	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	844.7 - 874.7 mg/m ³	844.7 - 874.7 mg/m ³	87.34 - 117.34 mg/m ³	87.34 - 117.34 mg/m ³
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	-10.5 - 19.5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	22 - 52 mg/kg	Non-applicable
	Inhalation	719 - 749 mg/m ³	719 - 749 mg/m ³	352 - 382 mg/m ³	352 - 382 mg/m ³
2-butanone CAS: 78-93-3 EC: 201-159-0	Oral	Non-applicable	Non-applicable	16 - 46 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	397 - 427 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	91 - 121 mg/m ³	Non-applicable

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Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Non-applicable	Non-applicable	-14.42 - 15.58 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	13.75 - 43.75 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	-13 - 17 mg/m ³	Non-applicable
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	-13.4 - 16.6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	93 - 123 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	-0.2 - 29.8 mg/m ³	Non-applicable
Ethylbenzene CAS: 1330-20-7 EC: 202-849-4	Oral	Non-applicable	Non-applicable	-13.4 - 16.6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0 - 30 mg/m ³	Non-applicable
Toluene CAS: 108-88-3 EC: 203-625-9	Oral	Non-applicable	Non-applicable	-6.87 - 23.13 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	211 - 241 mg/kg	Non-applicable
	Inhalation	211 - 241 mg/m ³	211 - 241 mg/m ³	41.5 - 71.5 mg/m ³	41.5 - 71.5 mg/m ³
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w) CAS: 64742-95-6 EC: 918-668-5	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	32 mg/m ³	Non-applicable

PNEC:

Identification					
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	20.6 - 50.6 mg/L	Fresh water	-14.82 - 15.18 mg/L	
	Soil	-14.91 - 15.09 mg/kg	Marine water	-14.98 - 15.02 mg/L	
	Intermittent	-14.64 - 15.36 mg/L	Sediment (Fresh water)	-14.02 - 15.98 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	-14.9 - 15.1 mg/kg	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	635 - 665 mg/L	Fresh water	-14.76 - 15.24 mg/L	
	Soil	-14.85 - 15.15 mg/kg	Marine water	-14.98 - 15.02 mg/L	
	Intermittent	-13.35 - 16.65 mg/L	Sediment (Fresh water)	-13.85 - 16.15 mg/kg	
	Oral	185 - 215 g/kg	Sediment (Marine water)	14.89 - 15.12 mg/kg	
2-butanone CAS: 78-93-3 EC: 201-159-0	STP	694 - 724 mg/L	Fresh water	40,8 - 70,8 mg/L	
	Soil	7.5 - 37.5 mg/kg	Marine water	40,8 - 70,8 mg/L	
	Intermittent	40.8 - 70.8 mg/L	Sediment (Fresh water)	269.74 - 299.74 mg/kg	
	Oral	985 - 1015 g/kg	Sediment (Marine water)	269.7 - 299.7 mg/kg	
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	STP	65 - 95 mg/L	Fresh water	-15 - 15 mg/L	
	Soil	-3.1 - 26.9 mg/kg	Marine water	-15 - 15 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	-2 - 28 mg/kg	
	Oral	-5 - 25 g/kg	Sediment (Marine water)	12.4 - 17.6 mg/kg	
Xylene CAS: 1330-20-7 EC: 215-535-7	STP	-8.42 - 21.58 mg/L	Fresh water	14.67 - 15.33 mg/L	
	Soil	-12.69 - 17.31 mg/kg	Marine water	14,67 - 15.33 mg/L	
	Intermittent	-14.67 - 15.33 mg/L	Sediment (Fresh water)	2.54 - 27.46 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	2.54 - 27.46 mg/kg	
Ethylbenzene CAS: 1330-20-7 EC: 202-849-4	STP	-5.4 - 24.6 mg/L	Fresh water	14.9 - 15.1 mg/L	
	Soil	-12.32 - 17.68 mg/kg	Marine water	-14.99 - 15.01 mg/L	
	Intermittent	-14.9 - 15.1 mg/L	Sediment (Fresh water)	-1.3 - 28.7 mg/kg	

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Toluene CAS: 108-88-3 EC: 203-625-9	Oral	5 - 35 g/kg	Sediment (Marine water)	-13.63 - 16.37 mg/kg
	STP	-1.39 - 28.61 mg/L	Fresh water	-14.32 - 15.68 mg/L
	Soil	-12.11 - 17.89 mg/kg	Marine water	-14.32 - 15.68 mg/L
	Intermittent	-14.32 - 15.68 mg/L	Sediment (Fresh water)	1.39 - 31.39 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1.39 - 31.39 mg/kg



8.2. Exposure controls

General safety and hygiene measures in the work place



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	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 405:2001+A1:2009	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.

Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

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	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Bodily protection	Disposable clothing for protection against chemical		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010	For professional use only. Clean periodically according to the manufacturer's instructions.

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Mandatory complete body protection	risks, with antistatic and fireproof properties		EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	
 Mandatory foot Protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

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

Physical state at 20 °C	Liquid
Appearance	Fluid
Colour	White
Odour	Characteristic
Odour threshold	Non-applicable *

Volatility

Boiling point at atmospheric pressure	77 °C
Vapour pressure at 20 °C	4.9 kPa
Vapour pressure at 50 °C	19.43 kPa
Evaporation rate at 20 °C	Non-applicable*

Product description

Density at 20 °C	1445 kg/m ³
Relative density at 20 °C	1.445
Dynamic viscosity at 20 °C	Non-applicable*
Kinematic viscosity at 20 °C	Non-applicable*
Kinematic viscosity at 40 °C	Non-applicable*
Concentration	Non-applicable*
pH	Non-applicable*
Vapour density at 20 °C	Non-applicable*
Partition coefficient n-octanol/water at 20 °C	Non-applicable*
Solubility in water at 20 °C	Non-applicable*
Solubility properties	Non-applicable*

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Decomposition temperature	Non-applicable*
Melting point/Freezing point	Non-applicable*
Explosive properties	Non-applicable*
Oxidising properties	Non-applicable*

Flammability

Flash point	11 °C
Flammability (solid, gas)	Non-applicable*
Autoignition temperature	421 °C
Lower flammability limit	Not available
Upper flammability limit	Not available

Explosive

Lower explosive limit	Non-applicable*
Upper explosive limit	Non-applicable*

9.2. Other information

Surface tension at 20 °C	Non-applicable*
Refraction index	Non-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 (CO ₂), carbon monoxide and other organic compounds.
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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:

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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	Titanium dioxide (2B); Toluene (3); Ethylbenzene (2B); Xylene (3)
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	
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.
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 EC: 204-658-1	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

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EC: 205-500-4	LC50 inhalation	Non-applicable	
2-butanone CAS: 78-93-3 EC: 201-159-0	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50 inhalation	23.5 mg/L (4 h)	Rat
	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50 inhalation	Non-applicable	
	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	15354 mg/kg	Rabbit
Toluene CAS: 108-88-3 EC: 203-625-9	LC50 inhalation	17.2 mg/L (4 h)	Rat
	LD50 oral	5580 mg/kg	Rat
	LD50 dermal	12124 mg/kg	Rat
	LC50 inhalation	28.1 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix)

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-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	62 mg/L (96 h)	Leuciscus idus	Fish
	EC50	73 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	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
2-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
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae
Toluene CAS: 108-88-3	LC50	13 mg/L (96 h)	Carassius auratus	Fish
	EC50	11.5 mg/L (48 h)	Daphnia magna	Crustacean

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EC: 203-625-9	EC50	125 mg/L (48 h)	Scenedesmus subspicatus	Algae
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w) CAS: 64742-95-6 EC: 918-668-5	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	5 days
	BOD5/COD	0.79	% Biodegradable	84 %
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1.36 g O ₂ /g	Concentration	100 mg/L
	COD	1.69 g O ₂ /g	Period	14 days
	BOD5/COD	0.81	% Biodegradable	83 %
2-butanone CAS: 78-93-3 EC: 201-159-0	BOD5	2.03 g O ₂ /g	Concentration	Non-applicable
	COD	2.31 g O ₂ /g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
Xylene CAS: 1330-20-7 EC: 215-535-7	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	88 %
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
Toluene CAS: 108-88-3 EC: 203-625-9	BOD5	2.5 g O ₂ /g	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	Pow Log	1.78
	Potential	Low
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF	30
	Pow Log	0.73
	Potential	Moderate
2-butanone CAS: 78-93-3 EC: 201-159-0	BCF	3
	Pow Log	0.29
	Potential	Low
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Pow Log	2.77
	Potential	Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF	1
	Pow Log	3.15
	Potential	Low
Toluene CAS: 108-88-3 EC: 203-625-9	BCF	13
	Pow Log	2.73
	Potential	Low

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12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.478E-2 N/m (25 °C)	Moist soil	Non-applicable
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	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
2-butanone CAS: 78-93-3 EC: 201-159-0	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
Xylene CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry	524.86 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc	520	Henry	798.44 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.859E-2 N/m (25 °C)	Moist soil	Yes
Toluene CAS: 108-88-3 EC: 203-625-9	Koc	178	Henry	672.8 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.793E-2 N/m (25 °C)	Moist soil	Yes

12.5. Results of PBT and vPvB assessment

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, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, 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 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

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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	



14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

<i>ADR 2017 and RID 2017</i>	
Special regulations	163, 367, 640D, 650
Tunnel restriction code	D/E
Physico-Chemical properties	See Section 9
Limited quantities	5 L
<i>IMDG 38-16</i>	
Special regulations	367, 163
EmS code	F-E, S-E
Physico-Chemical properties	See Section 9
Limited quantities	5 L
Segregation group	Non-applicable
<i>IATA/ICAO 2017</i>	
Physico-Chemical properties	See Section 9

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

SECTION 15: Regulatory information

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH)	Non-applicable
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Substances included in Annex XIV of REACH ("Authorisation List") and sunset date	Non-applicable
Regulation (EC) 1005/2009, about substances that deplete the ozone layer	Non-applicable
Article 95, REGULATION (EU) No 528/2012	Non-applicable
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products	Non-applicable

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000
E2		200	500

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

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- “whoopee” cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

‘For professional users only’.

Specific provisions in terms of protecting people or the environment
Other legislation

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. The product could be affected by sectorial legislation.

15.2. Chemical safety assessment

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 ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks

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.

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Texts of the legislative phrases mentioned in section 3

CLP Regulation (EC) no. 1272/2008

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways
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.
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled
Acute Tox. 4: H332 - Harmful if inhaled
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: H361d - Suspected of damaging the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure
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
Asp. Tox. 1: 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
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

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.