

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	FluoMarker Upright Aerosol Paint
Product Inclusion	The document applies to all colour variants within the range of FluoMarker Upright Aerosol Paint
Container Size	500ml

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

Identified Uses	No specific uses identified
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 +44 (0) 23 9220 0707 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

Classification (REGULATION (EC) No 1272/2008)

Flammable aerosol, Category 1 (Aerosol 1, H222 - H229).

Repeated exposure may cause skin dryness or cracking (EUH066).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives Classification (67/548/EEC, 1999/45/EC)

Extremely flammable (F+, R 12).

Repeated exposure may cause skin dryness or cracking (R 66).

Vapours may cause drowsiness and dizziness (R 67).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label Elements

Mixture for aerosol application

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms

FluoMarker Upright Aerosol Paint



GHS02

Signal word	Danger
H-statement(s)	H222: Extremely flammable aerosol. H229 Pressurised container: May burst if heated. EUH066 Repeated exposure may cause skin dryness or cracking.
P-statement(s)	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F
Other information	Reserved for professional users. Do not use in a confined space. Not to be used for any usage other than those specified.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>
The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
ISOBUTANE (CONTENANT MOINS DE 0.1% DE BUTADIENE)	CAS: 75-28-5 EC: 200-857-2 REACH: 01-2119485395-27	F+ F+;R12	25 \leq x % < 50 [1]
		GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	
PROPANE	CAS: 74-98-6 EC: 200-827-9 REACH: 01-9112486944-21	F+ F+;R12	25 \leq x % < 50 [1]
		GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	
ETHYL ACETATE	INDEX: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4	Xi,F Xi;R36 F;R11 R66-R67	2.5 \leq x % < 10 [1]
		GHS02, GHS07 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

FluoMarker Upright Aerosol Paint

		EUH:066	
DEAROMATIZED HYDROCARBONS	EC: 927-241-2 REACH: 01-2119471843-32	<div>Xn Xn;R65 R10 R66-R67-R52/53</div> <div>GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH:066</div>	2.5 <= x % < 10
NAPHTA LOURD HYDROTRAITE	CAS: 64742-48-9 EC: 918-481-9 REACH: 01-2119457273-39	<div>Xn Xn;R65 R66</div> <div>GHS08 Dgr Asp. Tox. 1, H304 EUH:066</div>	2.5 <= x % < 10
2-METHOXY-1- METHYLETHYL ACETATE	INDEX: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH: 01-2110475791-29-xxxx	<div>R10</div> <div>GHS02 Wng Flam. Liq. 3, H226</div>	2.5 <= x % < 10 [1]

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

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

In case of eye contact

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In case of contact with skin

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

If swallowed

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available

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

No data available

SECTION 5: Firefighting measures

Flammable.

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

5.1. Extinguishing media

In the event of fire, use specifically suitable extinguishing agents. Never use water.

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable extinguishing media In the event of a fire, use :

FluoMarker Upright Aerosol Paint

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Extinguishing media which must not be used for safety reasons

- water
- water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for firefighting.

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non-first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

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

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention:

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

FluoMarker Upright Aerosol Paint

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Never pour water into this mixture.

Do not breathe in aerosols.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific and uses

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3	VME-ppm	VLE-mg/m3	VLE-ppm	Notes
108-65-6	275	50	550	100	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-28-5	1000 ppm	-	-	-	-
74-98-6	1000 ppm	-	-	-	-
141-78-6	400 ppm	-	-	-	-

- Denmark (2007)

CAS	TWA	TWA	Anm
74-98-6	1000 ppm	1800 mg/m3	-
141-78-6	150 ppm	540 mg/m3	-
108-65-6	50 ppm	275 mg/m3	H

- France (INRS - ED984 :2008)

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	Notes	TMP No
141-78-6	400	1400	-	-	-	84
108-65-6	50	275	100	550	-	-

- Norway (Administrative norms for pollution of the atmosphere, May 2007)

CAS	TWA	STEL	Ceiling	Definition	Criteria
74-98-6	500 ppm	-	-	-	-
141-78-6	150 ppm	-	-	-	-
108-65-6	50 ppm	-	-	-	-

- Sweden (AFS 2007:2)

CAS	TWA	STEL	Ceiling	Definition	Criteria
141-78-6	150 ppm	300 ppm	-	-	-
108-65-6	50 ppm	75 ppm	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007)

CAS	TWA	STEL	Ceiling	Definition	Criteria
141-78-6	200 ppm	400 ppm	-	-	-
108-65-6	50 ppm	100 ppm	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

DEAROMATIZED HYDROCARBONS

FluoMarker Upright Aerosol Paint

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact
Long term systemic effects.
300 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects
1500 mg of substance/m³

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects
300 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects
300 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
900 mg of substance/m³

8.2. Exposure controls

Personal protection measures,

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Hand Protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Gloves must be selected according to the application and duration of use at the workstation.
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

Recommended properties :

- Impervious gloves in accordance with standard EN374

Eye Protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard EN166.

Skin and body Protection

Avoid skin contact.
Wear suitable protective clothing.
Suitable type of protective clothing :
In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.

FluoMarker Upright Aerosol Paint

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Viscous liquid.
Form	Spray.
pH	Not relevant.
Boiling Point [°C]	Not specified
Vapour pressure (50°C)	Not relevant.
Density	< 1
Water solubility	Insoluble
Melting point/melting range	Not specified
Self-ignition temperature	Not specified.
Decomposition point/decomposition range	Not specified
Chemical combustion heat	Not specified
Inflammation time	Not specified
Deflagration density	Not specified
Inflammation distance	Not specified
Flame height	Not specified
Flame duration	Not specified

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- heating
- Heat
- Humidity

Protect from moisture. Reaction with water can cause an exothermic reaction.

10.5. Incompatible materials

Keep away from – water

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

Hazardous ingredients

NAPHTA LOURD HYDROTRAITE (CAS: 64742-48-9)

FluoMarker Upright Aerosol Paint

Oral toxicity [mg/kg]	Test criterion	Test species
> 5000 mg/kg	LD50	Rat

Dermal toxicity [mg/kg]	Test criterion	Test species
> 5000 mg/kg	LD50	Rabbit

Inhalative toxicity [mg/m3]	Test criterion	Test species
> 4.951 mg/m3	LC50	Rat

DEAROMATIZED HYDROCARBONS

Oral toxicity [mg/kg]	Test criterion	Test species
> 5000 mg/kg	LD50	Rat

Dermal toxicity [mg/kg]	Test criterion	Test species
> 5000 mg/kg	LD50	Rabbit

Inhalative toxicity [mg/m3]	Test criterion	Test species
> 4951 mg/m3	LC50	Rat

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: Ecological information

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

DEAROMATIZED HYDROCARBONS

Biodegradability : No degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

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

Do not pour into drains or waterways.

Waste

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste; do not dispose of waste into the environment.

Soiled packaging

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste)

16 05 04 * gases in pressure containers (including halons) containing dangerous substances

FluoMarker Upright Aerosol Paint

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 (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

Classification



2.1

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	2.1	See SP63	-	SP277	F-D,S-U	63 190 277 327 344 959	E0

IATA	Class	2°Label	Pack gr.	Passenger	Passenger	Cargo	Cargo	Note	EQ
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A145 A167 A802	E0
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of MARPOL3/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Directive 75/734/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

FluoMarker Upright Aerosol Paint

- Container information:

No data available.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:



Extremely Flammable

Risk phrase:

R 12

R 66

R 67

Safety phrase :

Extremely flammable.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

No smoking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Take precautionary measures against static discharges.

S 33

Title for H, EUH and R indications mentioned in section 3 :

H220

Extremely flammable gas.

H225

Highly flammable liquid and vapour.

H226

Flammable liquid and vapour.

H280

Contains gas under pressure; may explode if heated.

H304

May be fatal if swallowed and enters airways.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

FluoMarker Upright Aerosol Paint

EUH066	Repeated exposure may cause skin dryness or cracking.
R 10	Flammable.
R 11	Highly flammable.
R 12	Extremely flammable.
R 36	Irritating to eyes.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
Abbreviations :	
DNEL	Derived No-Effect Level
ADR	European agreement concerning the international carriage of dangerous goods by Road.
IMDG	International Maritime Dangerous Goods.
IATA	International Air Transport Association.
ICAO	International Civil Aviation Organisation
RID	Regulations concerning the International carriage of Dangerous goods by rail.
WGK	Wassergefährdungsklasse (Water Hazard Class).
GHS02	Flame

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.