

FluoMarker Upright Aerosol Paint



SAFETY DATA SHEET

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

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

1.1. Product identifier

Product Name	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 mail@meonuk.com
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008), (CLP)

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

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

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

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

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2.2. Label Elements

Mixture for aerosol application

In compliance with EC regulation No. 1272/2008 and its amendments, (CLP).

Hazard pictograms



Signal word

Danger

H-statement(s)

H222: Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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

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 fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Ingredient	Identification	Classification	Concentration
BUTANE	CAS: 106-97-8 EC: 203-448-7 REACH: 01-2119474691-32	GHS02, GHS04 Dgr Flam. Gas 1, H220 Press. Gas,	10 \leq x % < 25 [1] [7]
PROPANE	CAS: 74-98-6 EC: 200-827-9 REACH: 01-9112486944-21	GHS02, GHS04 Dgr Flam. Gas 1, H220 Press. Gas,	10 \leq x % < 25 [1] [7]

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HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	EC: 918-481-9 REACH: 01-2119457273-39	GHS08 Dgr Asp. Tox. 1, H304 EUH:066	10 ≤ x % < 25 P
HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	EC: 927-241-2 REACH: 01-2119471843-32	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH:066	10 ≤ x % < 25 P
ISOBUTANE (CONTENANT MOINS DE 0.1% DE BUTADIENE)	CAS: 75-28-5 EC: 200-857-2 REACH: 01-2119485395-27	GHS02, GHS04, GHS08 Dgr Flam. Gas 1, H220 Press. Gas, H350 Carc. 1A, H340 Muta. 1B	10 ≤ x % < 25 [1] [7]
2-METHOXY-1-METHYLETHYL ACETATE	INDEX: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH: 01-2110475791-29-xxxx	GHS02 Wng Flam. Liq. 3, H226	2.5 ≤ x % < 10 [1]
ETHYL ACETATE	CAS: 141-78-6 EC: 205-500-4 REACH: 01-2119475103-46	GHS02, GHS07 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH:066	2.5 ≤ x % < 10 [1]

Information on ingredients:

(Full text of H-phrases: see section 16)

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

[7] Propellant gas

Note P: The carcinogen or mutagen classification does not apply because the substance contains less than 0.1 % w/w of benzene (EINECS 200-753-7).

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

In case of eye contact

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

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.

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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: <ul style="list-style-type: none">- 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.
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Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none">- water- water jet
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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: <ul style="list-style-type: none">- carbon monoxide (CO)- carbon dioxide (CO₂)
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5.3. Advice for firefighters

Special protective equipment for firefighting.	Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.
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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.

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.

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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.

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.

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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE))

CAS	VME-mg/m3	VME-ppm	VLE-mg/m3	VLE-ppm	Notes
108-65-6	275	50	550	100	Peau
141-78-6	734	200	1468	400	-

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

CAS	TWA	STEL	Ceiling	Definition	Criteria
106-97-8	1000 ppm	-	-	-	-
74-98-6	1000 ppm	-	-	-	-
75-28-5	1000 ppm	-	-	-	-
141-78-6	400 ppm	-	-	-	-

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021)

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	Notes	TMP No
106-97-8	800	1900	-	-	-	-
108-65-6	50	275	100	550	-	-
141-78-6	400	1400	-	-	-	84

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020)

CAS	TWA	STEL	Ceiling	Definition	Criteria
106-97-8	600 ppm 1450 mg/m ³	750 ppm 1810 mg/m ³	-	Care	-
108-65-6	50 ppm 274 mg/m ³	100 ppm 548 mg/m ³	-	Sk	-
141-78-6	200 ppm 734 mg/m ³	400 ppm 1468 mg/m ³	-	-	-

- Netherlands / MAC-waarde (10 december 2014)

CAS	TWA	STEL	Ceiling	Definition	Criteria
106-97-8	600 ppm	-	-	-	-
108-65-6	550 ppm mg/m ³	-	-	-	-
141-78-6	150 ppm	300 ppm	-	-	-

- Denmark (2020)

CAS	TWA	VSTEL	Loftvaerdi	Anm
106-97-8	500 ppm 1200 mg/m ³	-	-	-
74-98-6	1000 ppm 1800 mg/m ³	-	-	-
108-65-6	50 ppm 275 mg/m ³	-	-	EH
141-78-6	150 ppm 540 mg/m ³	-	-	E

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

CAS	TWA	STEL	Ceiling	Definition	Criteria
106-97-8	250 ppm 600 mg/m ³	-	-	-	-
74-98-6	500 ppm 900 mg/m ³	-	-	-	-
108-65-6	50 ppm 270 mg/m ³	-	-	HE	-
141-78-6	200 ppm 734 mg/m ³	400 ppm 1468 mg/m ³	-	E	-

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- Switzerland (Suva 2021)

CAS	TWA	VLE	Valeur plafond	Notes
106-97-8	800 ppm 1900 mg/m ³	3200 ppm 7600 mg/m ³	-	-
74-98-6	1000 ppm 1800 mg/m ³	4000 ppm 7200 mg/m ³	-	-
75-28-5	800 ppm 1900 mg/m ³	3200 ppm 7600 mg/m ³	-	-
108-65-6	50 ppm 275 mg/m ³	50 ppm 275 mg/m ³	-	-
141-78-6	200 ppm 730 mg/m ³	400 ppm 1468 mg/m ³	-	-

- Finland (HTP-värden 2018)

CAS	TWA	STEL	Ceiling	Definition	Criteria
74-98-6	800 ppm 1500 mg/m ³	1100 ppm 2000 mg/m ³	-	-	-
108-65-6	50 ppm 270 mg/m ³	100 ppm 550 mg/m ³	-	-	-
141-78-6	200 ppm 730 mg/m ³	400 ppm 1470 mg/m ³	-	-	-

- Sweden (AFS 2018:1)

CAS	TWA	STEL	Ceiling	Definition	Criteria
108-65-6	50 ppm 275 mg/m ³	100 ppm 550 mg/m ³	-	-	-
141-78-6	150 ppm 550 mg/m ³	300 ppm 1100 mg/m ³	-	-	-

- Italy (Decree, 26/02/2004)

CAS	TWA	STEL	Ceiling	Definition	Criteria
108-65-6	50 ppm 275 mg/m ³	100 ppm 550 mg/m ³	-	-	-

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

Wear suitable protective gloves in the event of prolonged or repeated skin contact.
Type of gloves recommended:
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)).
- PVA (Polyvinyl alcohol).

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

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/A1 to prevent skin contact.
In the event of a risk of splashing, wear protective clothing against chemical risks (type prevent skin contact.
Work clothing worn by personnel shall be laundered regularly.

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After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid / liquid.
Colour	Various
Odour	Not specified.
Melting point/melting range	Not specified.
Freezing Point	Not specified.
Boiling Point	Not specified.
Flammability	Not specified.
Lower and upper explosion Limit	Not Specified.
Flash point	Not relevant.
Auto-ignition temperature	Not specified.
Decomposition temperature	Not specified.
pH	Not relevant.
pH (aqueous solution)	Not stated.
Kinematic viscosity	Not specified.
Solubility	
Water solubility	Insoluble
Fat solubility	Not specified.
Partition coefficient	
n-octanol/water (log value)	
Partition coefficient: n-octanol/water	Not specified.
Vapour pressure	
Vapour pressure (50 °C)	Not specified.
Density and/or relative density	
Density	<1
Relative vapour density	
Vapour density	Not stated.

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.

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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

Splashes in the eyes may cause irritation and reversible damage.

11.1.1 Substances

Acute toxicity

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Oral route: LD50 > 5000 mg/kg
Species: Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 5000 mg/kg
Species: Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist): LC50 > 5000 mg/m³
Species: Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Oral route: LD50 > 5000 mg/kg
Species: Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 2000 mg/kg
Species: Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours): LC50 5000

11.1.2 Mixture

No toxicology data available for the mixture.

11.2 Information on other hazards

No data available.

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SECTION 12: Ecological information

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.2.1. Substances

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

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

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 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

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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.	Stowage Handling	Segregation
	2	See SP63	-	See SP277	F-D, S-U	63 190 277 327 344 959	-SW1 SW22	SG69

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

No data available.

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:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

Container information:

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

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Particular provisions:

N/A

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

WGK 2: Hazardous for water.

Swiss ordinance on the incentive tax on volatile organic compounds:

75-28-5	2-méthylpropane (alcool isobutylique, isobutane)
108-65-6	acétate de 1-méthoxy-2-propyle
141-78-6	acétate d'éthyle
74-98-6	propane
106-97-8	n-butane

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.

Wording of the phrases mentioned in section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations:

LD50	The dose of a test substance resulting in 50% lethality in a given time period.
LC50	The concentration of a test substance resulting in 50% lethality in a given period.
REACH	Registration, Evaluation, Authorization and Restriction of Chemical Substances.
UFI	Unique formulation identifier.
STEL	Short-term exposure limit
TWA	Time Weighted Averages
TMP	French Occupational Illness table
TLV	Threshold Limit Value (exposure)

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.