

# COO-VAR®

## PAINTS, PRIMERS AND SPECIALISED COATINGS

### SAFETY DATA SHEET

#### 138/W224 - GUARD-COAT BASE - CLEAR

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

##### 1.1. Product identifier

|                |                                    |
|----------------|------------------------------------|
| Product name   | 138/W224 - GUARD-COAT BASE - CLEAR |
| Product number | 138/W224/C                         |
| UFI            | UFI: YVKP-M2UH-C00H-219Q           |

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

|                 |                                      |
|-----------------|--------------------------------------|
| Identified uses | BASE FOR TWO COMPONENT FLOOR COATING |
|-----------------|--------------------------------------|

##### 1.3. Details of the supplier of the safety data sheet

|                |  |   |
|----------------|--|---|
| Supplier       | COO-VAR<br>Lockwood Street<br>HULL UK<br>HU2 0HN<br>+441482328053 (T)<br>+441482219266 (F)<br>info@coo-var.co.uk                   | TEAL & MACKRILL EU B.V.<br>Zandvoortstraat 69<br>1976 BN IJMUJIDEN<br>THE NETHERLANDS<br>+441482328053 (T)<br>+441482219266 (F)<br>info@coo-var.co.uk |
| Contact person | Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above   |   |
| Manufacturer   | TEAL & MACKRILL LIMITED<br>LOCKWOOD STREET<br>HULL<br>HU2 0HN<br>+44(0)1482 320194(T)<br>+44(0)1482 219266(F)<br>info@teamac.co.uk |   |

##### 1.4. Emergency telephone number

|                     |  |
|---------------------|--|
| Emergency telephone | +44 (0) 1482 328053 Coo-Var (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri) |
| SDS No.             | 11273  |

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

|                       |  |
|-----------------------|--|
| Physical hazards      | Not Classified   |
| Health hazards        | Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317   |
| Environmental hazards | Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410  |
| Human health          | The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals. |
| Physicochemical       | When handled correctly, undamaged units represent no danger.   |

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### 2.2. Label elements

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P102 Keep out of reach of children.  
 P101 If medical advice is needed, have product container or label at hand.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

#### Supplemental label information

Contains a biocidal product  
 May produce an allergic reaction.

#### Contains

REACTION PRODUCT : BISPHENOL A-(EPICHLOROHYDRIN):EPOXY RESIN (NUMBER AVERAGE MW<=700), FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL, OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

#### Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.  
 P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide or dry powder to extinguish.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|   |  |  |
|---|--|--|
| <b>FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL</b> |  | <b>10-30%</b>                                    |
| CAS number: 9003-36-5   | EC number: 500-006-8                             | REACH registration number: 01-2119454392-40-0003 |
| <b>Classification</b>   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |  |
| Skin Irrit. 2 - H315  | Xi;R38. N;R51/53. R43.                           |  |
| Skin Sens. 1 - H317   |  |  |
| Aquatic Chronic 2 - H411  |  |  |

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|   |  |  |
|---|--|--|
| <b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>                      |  | <b>5-10%</b>                                     |
| CAS number: 68609-97-2  | REACH registration number: 01-2119485289-22-0005               |  |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317        | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>R43 Xi;R38 |  |
| <b>Titanium Dioxide</b>   |  | <b>1-5%</b>                                      |
| CAS number: 13463-67-7  | EC number: 236-675-5   | REACH registration number: 01-2119489379-17-xxxx |
| <b>Classification</b><br>Not Classified                                     | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>-          |  |
| <b>Silver chloride (soluble silver)</b>                                     |  | <b>&lt;1%</b>                                    |
| CAS number: 7783-90-6   | EC number: 232-033-3   |  |
| M factor (Acute) = 1000   | M factor (Chronic) = 100                                       |  |
| <b>Classification</b><br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>N;R50.     |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                            |   |
|----------------------------|---|
| <b>General information</b> | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.   |
| <b>Inhalation</b>          | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Place unconscious person on their side in the recovery position and ensure breathing can take place. |
| <b>Ingestion</b>           | Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention if any discomfort continues.   |
| <b>Skin contact</b>        | Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.  |
| <b>Eye contact</b>         | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.   |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | Get medical attention promptly if symptoms occur after washing. |
|----------------------------|---|

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

|                             |   |
|-----------------------------|---|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

**SECTION 5: Firefighting measures**

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### 5.1. Extinguishing media

**Suitable extinguishing media** Non flammable at room temperature, but will burn. Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of vapours. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly closed original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 25°C. Protect from freezing and direct sunlight. Keep containers upright.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

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### Usage description

Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Titanium Dioxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit.

#### FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

##### DNEL

Workers - Inhalation; Long term systemic effects: 29.39 mg/kg

Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day

General population - Inhalation; Long term systemic effects: 8.7 mg/kg

General population - Dermal; Long term systemic effects: 62.5 mg/kg/day

General population - Oral; Long term systemic effects: 6.25 mg/kg/day

#### Titanium Dioxide (CAS: 13463-67-7)

##### DNEL

Industry - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

##### PNEC

- Fresh water; 0.184 mg/l

- marine water; 0.0184 mg/l

- Sediment (Freshwater); >=1000 mg/kg

- Sediment (Marinewater); >=100 mg/kg

- Soil; 100 mg/kg

- STP; 100 mg/kg

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

##### Personal protection

Unprotected persons should be kept away from treated areas.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

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|                                       |  |
|---------------------------------------|--|
| <b>Hand protection</b>                | To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturers' performance data suggest that the optimum glove for use should be: Butyl rubber. Thickness: > 0.5 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. or Nitrile rubber. Thickness: > 0.4 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 240 mins. Caution: The performance of gloves under actual working conditions can be significantly affected by many factors and the information provided according to EN374 may not accord with what is achieved in practice. We recommend that expert professional advice is sought that takes into account of the work processes and working environment applicable for each task where gloves are to be worn. |
| <b>Other skin and body protection</b> | Wear appropriate clothing to prevent reasonably probable skin contact.   |
| <b>Hygiene measures</b>               | Use engineering controls to reduce air contamination to permissible exposure level. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.  |
| <b>Respiratory protection</b>         | No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.  |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                            |
|---|----------------------------|
| <b>Appearance</b>                                   | Clear, yellowish liquid.   |
| <b>Colour</b>                                       | Grey.                      |
| <b>Odour</b>  | Sweetish.                  |
| <b>Odour threshold</b>                              | Not determined.            |
| <b>pH</b>   | Technically not feasible.  |
| <b>Melting point</b>                                | Not determined.            |
| <b>Initial boiling point and range</b>              | >150°C @ 760 mm Hg         |
| <b>Flash point</b>                                  | 28 (approx.)°C Closed cup. |
| <b>Evaporation rate</b>                             | Not determined.            |
| <b>Evaporation factor</b>                           | Not determined.            |
| <b>Upper/lower flammability or explosive limits</b> | : 0.8                      |
| <b>Other flammability</b>                           | Not determined.            |
| <b>Vapour pressure</b>                              | <0.1 mbar @ °C             |
| <b>Vapour density</b>                               | heavier than air           |
| <b>Relative density</b>                             | 1.12 @ @ 25°C              |
| <b>Solubility(ies)</b>                              | Immiscible with water      |
| <b>Partition coefficient</b>                        | Not determined.            |
| <b>Auto-ignition temperature</b>                    | >200°C                     |
| <b>Decomposition Temperature</b>                    | Not determined.            |
| <b>Viscosity</b>                                    | 0.90 Pas @ 25 C°C          |

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|   |                                 |
|---|---------------------------------|
| <b>Explosive properties</b>                     | Not determined.                 |
| <b>Explosive under the influence of a flame</b> | Not considered to be explosive. |
| <b>Oxidising properties</b>                     | Not determined.                 |

### 9.2. Other information

|                                  |   |
|----------------------------------|---|
| <b>Volatile organic compound</b> | EU: (cat A/j): 140 g/l 2010. This product contains a maximum VOC content of <1 g/litre. |
|----------------------------------|---|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

### 10.2. Chemical stability

|                  |   |
|------------------|---|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---|

### 10.3. Possibility of hazardous reactions

|   |                |
|---|----------------|
| <b>Possibility of hazardous reactions</b> | Will not occur |
|---|----------------|

### 10.4. Conditions to avoid

|                            |            |
|----------------------------|------------|
| <b>Conditions to avoid</b> | Not known. |
|----------------------------|------------|

### 10.5. Incompatible materials

|                           |   |
|---------------------------|---|
| <b>Materials to avoid</b> | Strong acids. Alkalis - inorganic. Amines. Mercaptans (thiols). |
|---------------------------|---|

### 10.6. Hazardous decomposition products

|   |  |
|---|--|
| <b>Hazardous decomposition products</b> | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
|---|--|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|   |  |
|---|--|
| <b>Toxicological effects</b>            | No data recorded.  |
| <b>General information</b>              | No specific health hazards known.  |
| <b>Inhalation</b>                       | May cause respiratory system irritation.   |
| <b>Ingestion</b>                        | Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.   |
| <b>Skin contact</b>                     | Irritating to skin. May cause sensitisation by skin contact.   |
| <b>Eye contact</b>                      | Irritating to eyes.  |
| <b>Acute and chronic health hazards</b> | May cause sensitisation by skin contact. Delayed appearance of the complaints and development of hypersensitivity (difficulty breathing, coughing, asthma) are possible. |
| <b>Route of exposure</b>                | Inhalation Skin absorption. Ingestion. Skin and/or eye contact.  |
| <b>Medical considerations</b>           | Skin disorders and allergies.  |

### Toxicological information on ingredients.

**FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL**

**138/W224 - GUARD-COAT BASE - CLEAR**Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 2,100.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 2,100.0

Silver chloride (soluble silver)

Toxicological effects No indication of mutagenic effects.

**SECTION 12: Ecological information**

**Ecotoxicity** There are no data on the ecotoxicity of this product. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Ecological information on ingredients.Silver chloride (soluble silver)

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

12.1. ToxicityEcological information on ingredients.FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOLAcute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates LC<sub>50</sub>, 96 hours: >100 mg/l, Daphnia magna

Silver chloride (soluble silver)Acute aquatic toxicity

LE(C)<sub>50</sub> 0.0001 < L(E)C50 ≤ 0.001

M factor (Acute) 1000

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.005 g/l mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.000074 g/l mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 0.003 g/l mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 100

12.2. Persistence and degradability

**Persistence and degradability** No data available.

12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.



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**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** The product is non-volatile.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Avoid the spillage or runoff entering drains, sewers or watercourses. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered. DO NOT reuse containers containing residual product without commercial cleaning

**Waste class** When this material, in its liquid state, as supplied, becomes a waste, it is categorised as a hazardous waste, with code 08 01 11\* (EPOXY BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing residues of the supplied material, are categorised as hazardous waste, with code 08 01 11\* (EPOXY BASED LIQUID WASTE). Ideally this component should be mixed with the appropriate hardener and allowed to react fully to produce a solid waste. Neutralised empty packages, are categorised as non-hazardous waste, with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging)

## SECTION 14: Transport information

**General** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Paint

**Proper shipping name (IMDG)** Paint

**Proper shipping name (ICAO)** Paint

**Proper shipping name (ADN)** Paint

### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**IMDG class** 9

### Transport labels



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### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Revision comments** Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Unique Formula Identifier (UFI) added Addition of EU supplier information

**Issued by** Technical Dept. (P.E.)

**Revision date** 04/02/2021

**Revision** 3.2

**Supersedes date** 05/08/2020

**SDS number** 11273

**SDS status** Approved.

**Hazard statements in full** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Signature** Initials \_\_\_\_\_

## 138/W224 - GUARD-COAT BASE - CLEAR

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.