

# Security data sheet



Product: A905

Manufacturer: PERMABOND ENGINEERING ADHESIVES

Product group: KLEBSTOFF

Article group: AKTIVATOR

Download: 30.04.2024

## PERMABOND A905 LIQUID

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## SAFETY DATA SHEET

### Permabond A905 - Liquid

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

##### 1.1. Product identifier

**Product name** Permabond A905 - Liquid

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

**Identified uses** Primer.

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

**Supplier** Permabond Engineering Adhesives Ltd.  
 Wessex Way  
 Colden Common  
 Winchester  
 Hampshire SO21 1WP  
 United Kingdom  
 Tel: +44 (0)1962 711 661  
 Fax: +44 (0)1962 711 662  
 info.europe@permabond.com

##### 1.4. Emergency telephone number

**Emergency telephone** CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)

**National emergency telephone number** CHEMTREC Ireland: +(353)-19014670  
 CHEMTREC Australia: +(61)-290372994  
 CHEMTREC New Zealand: +(64)-98010034

#### SECTION 2: Hazards identification

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

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

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

**Environmental** Toxic to aquatic life with long lasting effects.

**Physicochemical** The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

##### 2.2. Label elements

## Permabond A905 - Liquid

### Hazard pictograms



### Signal word

Danger

### Hazard statements

EUH208 Contains COPPER NAPHTHENATE. May produce an allergic reaction.  
 H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing vapour/ spray.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P331 Do NOT induce vomiting.  
 P302+P352a IF ON SKIN: Wash with plenty of soap and water  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### Contains

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

### Supplementary precautionary statements

P243 Take action to prevent static discharges.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves, eye and face protection.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

### 2.3. Other hazards

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS		60-100%
CAS number: —	EC number: 927-510-4	REACH registration number: 01-2119475515-33-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

## Permabond A905 - Liquid

<b>trans-DICHLOROETHYLENE</b>			<b>5-10%</b>
CAS number: 156-60-5	EC number: 205-860-2	REACH registration number: 01-2120093504-55-XXXX	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H336 Aquatic Chronic 3 - H412			

<b>COPPER NAPHTHENATE</b>			<b>&lt;1%</b>
CAS number: 1338-02-9	EC number: 215-657-0	REACH registration number: 01-2120796341-51-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
REACH registration exemption – < 1 tonne			
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

<b>2-ETHYLHEXANOIC ACID, COPPER SALT</b>			<b>&lt;1%</b>
CAS number: 22221-10-9	EC number: 244-846-0	REACH registration number: 01-2120789200-58-XXXX	
M factor (Acute) = 1			
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Repr. 2 - H361d Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411			

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Drink a few glasses of water or milk. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

## Permabond A905 - Liquid

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**General information** Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Inhalation** Vapours may cause drowsiness and dizziness.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

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

**Notes for the doctor** Avoid vomiting and stomach flushing because of the risk of aspiration.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is flammable. Heating may generate flammable vapours. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products** Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.

### 5.3. Advice for firefighters

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

**Special protective equipment for firefighters** Wear self contained breathing apparatus and protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Remove or isolate all sources of ignition. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Transfer to suitable, labelled containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## Permabond A905 - Liquid

**Usage precautions** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. During application and drying, solvent vapours will be emitted. Use in a well ventilated area. Avoid contact with skin and eyes. Do not ingest or inhale.

### 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. Keep away from sources of ignition - No smoking.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** Primer.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

**DNEL** Workers - Dermal; Long term systemic effects: 300 mg/kg  
Workers - Inhalation; Long term systemic effects: 2085 mg/m<sup>3</sup>

#### trans-DICHLOROETHYLENE (CAS: 156-60-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 797 mg/m<sup>3</sup>

**PNEC** Fresh water; 36.4 µg/l  
marine water; 3.6 µg/l  
STP; 17 mg/l  
Sediment (Freshwater); 548.3 µg/kg  
Sediment (Marinewater); 54.8 µg/kg  
Soil; 56.3 µg/kg

#### NAPHTHENIC ACIDS (CAS: 1338-24-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 7.76 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 3.33 mg/kg/day  
Workers - Dermal; Long term local effects: 1.81 mg/cm<sup>2</sup>

**PNEC** - STP; 0.13 mg/l

#### COPPER DI(ACETATE) (CAS: 142-71-2)

**PNEC** Fresh water; 7.8 µg/l  
marine water; 5.2 µg/l  
STP; 230 µg/l  
Sediment (Freshwater); 87 mg/kg, dw  
Sediment (Marinewater); 676 mg/kg, dw  
Soil; 65 mg/kg, dw

### 8.2. Exposure controls

#### Protective equipment



## Permabond A905 - Liquid

<b>Appropriate engineering controls</b>	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166
<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: $\geq 0.4$ mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: $\geq 0.4$ mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
<b>Other skin and body protection</b>	Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower. Uniforms, coveralls, or a lab coat should be worn
<b>Hygiene measures</b>	Wash at the end of each work shift and before eating, smoking and using the toilet. Use of good industrial hygiene practices is required.
<b>Respiratory protection</b>	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Green.
<b>Odour</b>	aromatic hydrocarbons
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not known.
<b>Initial boiling point and range</b>	45 - 100°C
<b>Flash point</b>	~ -4°C
<b>Evaporation rate</b>	4.3
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.7
<b>Solubility(ies)</b>	Insoluble in water.
<b>Auto-ignition temperature</b>	Not available.
<b>Viscosity</b>	~ 0.7 mPa s @ 23°C

#### 9.2. Other information

## Permabond A905 - Liquid

Other information Not relevant.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong oxidising agents.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** There are no known reactivity hazards associated with this product.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Slightly irritating.

#### Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

#### Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

#### Ingestion

Gastrointestinal symptoms, including upset stomach.

#### Skin contact

Irritating to skin. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact.

#### Eye contact

Irritating and may cause redness and pain.

#### Toxicological information on ingredients.

#### HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,840.0



## Permabond A905 - Liquid

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,800.0

**Species** Rat

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 23.3

**Species** Rat

### Skin corrosion/irritation

**Skin corrosion/irritation** Read-across data. Method: OECD 404, Rabbit Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Read-across data. Not irritating.

### Skin sensitisation

**Skin sensitisation** Read-across data. Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Read-across data. Negative.

### Carcinogenicity

**Carcinogenicity** Not available.

### Reproductive toxicity

**Reproductive toxicity - fertility** Read-across data. Two-generation study - NOAEL 9000 ppm, Inhalation, Rat F1

**Reproductive toxicity - development** Read-across data. Developmental toxicity: - NOAEC: 1200 ppm, Inhalation, Rat

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not available.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not available.

### Aspiration hazard

**Aspiration hazard** Not available.

## trans-DICHLOROETHYLENE

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 5,000.0

## Permabond A905 - Liquid

<b>Species</b>	Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)</b>	24,000.0
<b>Species</b>	Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Method: OECD 404, Rabbit Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Method: OECD 405, Rabbit Irritating to eyes.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	No information available.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No information available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEC: 6000 ppm, Inhalation, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	No information available.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	No information available.

### SECTION 12: Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

#### 12.1. Toxicity

**Toxicity** The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Ecological information on ingredients.

##### HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: > 13.4 mg/l, Oncorhynchus mykiss (Rainbow trout)

## Permabond A905 - Liquid

<b>Acute toxicity - aquatic plants</b>	NOELR, 72 hours: 6.3 mg/l, <i>Pseudokirchneriella subcapitata</i>
<b>Acute toxicity - microorganisms</b>	NOELR, 48 hours: 5.999 mg/l, <i>Tetrahymena pyriformis</i>
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	NOELR, 28 days: 1.534 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout)
<b>Chronic toxicity - aquatic invertebrates</b>	NOELR, 21 days: 1 mg/l, <i>Daphnia magna</i>

### trans-DICHLOROETHYLENE

#### Acute aquatic toxicity

<b>Acute toxicity - aquatic invertebrates</b>	NOEC, 48 hours: 110 mg/l, <i>Daphnia magna</i> LC <sub>50</sub> , 48 hours: 220 - 290 mg/l, <i>Daphnia magna</i>
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### COPPER NAPHTHENATE

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
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<b>M factor (Acute)</b>	1
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#### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	1
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### 2-ETHYLHEXANOIC ACID, COPPER SALT

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
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<b>M factor (Acute)</b>	1
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## 12.2. Persistence and degradability

**Persistence and degradability** No data available.

## 12.3. Bioaccumulative potential

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

## 12.4. Mobility in soil

**Mobility** The product contains organic solvents which will evaporate easily from all surfaces.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

## 12.6. Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

## Permabond A905 - Liquid

<b>General information</b>	Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
<b>Disposal methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.
<b>Waste class</b>	14 06 03 other solvents and solvent mixtures

### SECTION 14: Transport information

#### 14.1. UN number

1993

#### 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7, n-Alkanes, isoalkanes,cyclics)

#### 14.3. Transport hazard class(es)

3

#### Transport labels



#### 14.4. Packing group

II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS F-E, S-E

Emergency Action Code 3YE

Hazard Identification Number 33  
(ADR/RID)

Tunnel restriction code (D/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

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
EH40/2005 Workplace exposure limits.

## Permabond A905 - Liquid

**EU legislation** 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).

**Guidance** Workplace Exposure Limits EH40.  
Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Revision date** 07/02/2020

**Revision** 6

**Supersedes date** 16/01/2018

**Hazard statements in full**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- EUH208 Contains COPPER NAPHTHENATE. May produce an allergic reaction.

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.