

**SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006

Revision date: March 2022.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** RTV128 Regular Catalyst (green)**Product number** 403-873**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Catalyst**1.3. Details of the supplier of the safety data sheet****Manufacturer / Supplier** PotteryCrafts Ltd / Tiranti  
Campbell Road  
Stoke  
Stoke-on-Trent.  
ST4 4ET  
Tel 44 (0)1782 745000  
[sales@potteryCrafts.co.uk](mailto:sales@potteryCrafts.co.uk) / [Enquiries@tiranti.co.uk](mailto:Enquiries@tiranti.co.uk)**1.4. Emergency telephone number****Emergency telephone** +44(0) 1782 745000 Office Hours 08:30 – 16:30 hrs Mon-Friday.**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

**Flammable**

Flam. Liq. 3 H226 Flammable liquid and vapour.

**Longer term health hazards such as carcinogenicity**

Repr. 1B H360D May damage the unborn child.

STOT RE 2 H373 May cause damage to the immune system through prolonged or repeated exposure.

**Caution – used for less serious health hazards like skin irritation**

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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[sales@potteryCrafts.co.uk](mailto:sales@potteryCrafts.co.uk) / [Enquiries@tiranti.co.uk](mailto:Enquiries@tiranti.co.uk)

## 2.2. Label elements

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). (no special label required).

### Hazard Pictograms



- **Signal word** Danger
- **Hazard-determining components of labelling:**

dioctyltin dilaurate  
tetraethyl silicate

### · Hazard statements

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H360D May damage the unborn child.  
H335 May cause respiratory irritation.  
H373 May cause damage to the immune system through prolonged or repeated exposure.

### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

PBT Substances: Not applicable  
vPvB Substances: Not applicable

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>· Dangerous components:</b>		
CAS: 78-10-4 EINECS: 201-083-8 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 3648-18-8 EINECS: 222-883-3	diocryltin dilaurate Repr. 1B, H360D; STOT RE 1, H372	2.5-5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Take affected persons out of danger area and lay down.  
Personal protection for the First Aider.  
Provide oxygen treatment if affected person has difficulty breathing.  
Immediately remove any clothing soiled by the product.

#### · After inhalation:

Supply fresh air.  
In case of unconsciousness place patient stably in side position for transportation.



Provide artificial respiration if breathing has stopped.

In the case of mouth-to-mouth resuscitation, the person providing first aid should protect themselves with a mask.

In the event of breathing difficulties, give oxygen by qualified personnel. Call doctor or transport to

Arrange for a medical ambulance.

**- After skin contact:**

Remove contaminated clothing and shoes immediately.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**- After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**- After swallowing:**

Do not induce vomiting; call for medical help immediately.

If swallowed, rinse mouth with water (only if the person is conscious).

Call a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Use an inert extinguisher such as foam or carbon dioxide. Sand can also be used on small fires..

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

**Specific hazards** In case of fire hazardous combustion gases or vapors possible. Exposure to combustion products can be a health hazard! Hazardous fire products: toxic and very toxic smoke gases. Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:  
Carbon monoxide (CO)  
Carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Tin oxide (SnO<sub>2</sub> / SnO)

### **5.3. Advice for firefighters**

**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6: Accidental release measures**

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

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions** Contain spill safely, if possible. Prevent from entering drains, watercourses and sewers.

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

Contain spill with inert material such as sand, earth or vermiculite. Collect and dispose of safely

**6.4. Reference to other sections** Refer to section 8. And 13.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

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

Keep away from food, drink and feed.

Incompatible materials: See section 10.5.

Instructions as regards storage premises: Adequately ventilated premises.

Storage temperature 20-25°C

### **7.3. Specific end use(s)**

See section 1.2

## **SECTION 8: Exposure Controls/personal protection**

### **8.1 Control Parameters**

<b>· Ingredients with limit values that require monitoring at the workplace:</b>		
<b>78-10-4 tetraethyl silicate</b>		
WEL (Great Britain)	Long-term value: 44 mg/m <sup>3</sup> , 5 ppm	
IOELV (European Union)	Long-term value: 44 mg/m <sup>3</sup> , 5 ppm	
AGW (Germany)	Long-term value: 12 mg/m <sup>3</sup> , 1.4 ppm I(I);AGS	
MAK (Austria)	Short-term value: 88 mg/m <sup>3</sup> , 10 ppm Long-term value: 44 mg/m <sup>3</sup> , 5 ppm	
<b>· DNELs</b>		
<b>78-10-4 tetraethyl silicate</b>		
Dermal	DNEL Acute - systemic effects	8.4 mg/kg (General population) 12.1 mg/kg (workers)
	DNEL Long-term - systemic effects	8.4 mg/kg (General population) 12.1 mg/kg (workers)
Inhalative	DNEL Acute - systemic effects	25 mg/m <sup>3</sup> (General population) 85 mg/m <sup>3</sup> (workers)
	DNEL Long-term - systemic effects	25 mg/m <sup>3</sup> (General population) 85 mg/m <sup>3</sup> (workers)
	DNEL Acute - local effects	25 mg/m <sup>3</sup> (General population) 85 mg/m <sup>3</sup> (workers)
	DNEL Long-term exposure - local effects	25 mg/m <sup>3</sup> (General population) 85 mg/m <sup>3</sup> (workers)
<b>3648-18-8 dioctyltin dilaurate</b>		
Oral	DNEL Long-term - systemic effects	0.0005 mg/kg bw/day (General population)
Inhalative	DNEL Long-term - systemic effects	0.0009 mg/m <sup>3</sup> (General population) 0.0035 mg/m <sup>3</sup> (workers)
<b>· PNECs</b>		
<b>78-10-4 tetraethyl silicate</b>		
PNEC STP	4,000 mg/L (sewage plant)	
PNEC sediment	0.18 mg/kg (freshwater- sediment)	
	0.018 mg/kg (seawater - sediment)	
PNEC soil	0.05 mg/kg (soil ( Boden))	
PNEC	0.192 mg/l (freshwater)	
	0.0192 mg/l (marine water)	
	10 mg/l (intermittent releases)	
<b>3648-18-8 dioctyltin dilaurate</b>		
PNEC STP	100 mg/L (sewage plant)	
PNEC sediment	0.02798 mg/kg (freshwater- sediment)	
	0.02798 mg/kg (seawater - sediment)	
PNEC soil	0.005593 mg/kg (soil ( Boden))	
PNEC	0.0000018 mg/l (freshwater)	
	0.0000018 mg/l (marine water)	

(Continued on page 5)

**· Additional information:** The lists valid during the making were used as basis.

## 8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles.

Protection for skin:

Wear professional overalls and safety footwear.

**Protection for hands:**

Protect hands with work gloves.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**Respiratory protection:**

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

**Thermal Hazards:**

None

**Environmental exposure controls:**

None

**Appropriate engineering controls:**

None

**SECTION 9: Physical and Chemical Properties**

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

**Properties**

	<b>Value</b>
Appearance and colour:	Fluid, colourless
Odour:	Characteristic
Odour threshold:	Not Relevant
pH:	Not Relevant
Melting point / freezing point:	Not available
Flammability:	Flammable
Initial boiling point and boiling range:	>65 °C (63148-62-9 Dimethylsiloxan- und trimethylsiloxo-terminiert)
Flash point:	55 °C
Ignition Temperature	222 °C
Evaporation rate:	Not available
Solid/gas flammability:	Not available
Upper/lower flammability or explosive limits:	Not Relevant
Vapour pressure at 20 °C:	10 hPa
Vapour density:	Not available
Relative density:	Not available
Solubility in water:	Insoluble
Solubility in oil:	Not available
Partition coefficient (n-octanol/water):	Not Relevant
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	6500 cP Brookfield (SC4-29; 23 °C)
Explosive properties:	
Lower limit:	1.3 Vol %
Upper limit:	23 Vol %
Oxidizing properties:	Not Relevant

**9.2. Other information**

**Important information on protection of health and environment, and on safety.**

- **Auto-ignition temperature:** Product is not self-igniting.
- **Explosive properties:** Not determined.
- **Solvent content:**
- **Organic solvents:** 28.6 %
- **VOC (EC)** 280.2 g/l

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No Specific test data related to reactivity available for this product. Not expected to be particularly reactive under normal circumstances and conditions of use.

**10.2. Chemical stability**

chemically stable under normal temperatures, recommended conditions of storage and use

**10.3. Possibility of hazardous reactions**

Forms flammable gasses/fumes

- 10.4 Conditions to Avoid** Keep away from sources of heat, sparks and open flames. Vapours may form explosive mixtures with air.
- 10.5. Incompatible materials** Incompatible with oxidising agents, acids
- 10.6. Hazardous decomposition products** at the termic dismantling can build formaldehyde

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

<i>· LD/LC50 values relevant for classification:</i>		
<b>63148-62-9 Dimethylsiloxan- und trimethylsiloxo-terminiert</b>		
<i>Oral</i>	<i>LD50</i>	<i>&gt;15,400 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>&gt;2,000 mg/kg (rabbit)</i>
<b>78-10-4 tetraethyl silicate</b>		
<i>Oral</i>	<i>LD50</i>	<i>&gt;2,500 mg/kg (rat) (OECD 423 Acute oral toxicity)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>10 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)</i>
<small>(Tiranti, in page 5)</small>		
<b>3648-18-8 dioctyltin dilaurate</b>		
<i>Oral</i>	<i>LD50</i>	<i>6,450 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>&gt;2,000 mg/kg (rat)</i>
<ul style="list-style-type: none"> <li><i>· Skin corrosion/irritation irritation feasible</i></li> <li><i>· Serious eye damage/irritation Causes serious eye irritation.</i></li> <li><i>· Reproductive toxicity May damage the unborn child.</i></li> <li><i>· STOT-single exposure May cause respiratory irritation.</i></li> <li><i>· STOT-repeated exposure</i> <i>May cause damage to the immune system through prolonged or repeated exposure.</i></li> </ul>		
<b>11.2 Information on other hazards</b>		
<i>· Endocrine disrupting properties</i>		
<i>None of the ingredients is listed.</i>		

## **SECTION 12: Ecological Information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### **12.1. Toxicity**



## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### 63148-62-9 Dimethylsiloxan- und trimethylsiloxo-terminiert

EC50 (48 h) > 200 mg/l (*Daphnia Magna*)

##### 78-10-4 tetraethyl silicate

LC50 (96 h) > 245 mg/l (*Brachydanio rerio*) (OECD 203 Fish, Acute Toxicity Test)

EC50 (48 h) > 75 mg/l (*Daphnia Magna*) (OECD 202 *Daphnia* sp. Acute Immobilisation Test)

EC50 (72 h) > 100 mg/l (*Pseudokirchnerella Subcapitata*) (OECD 201 Alga, Growth Inhibition Test)

EC50(3h) > 100 mg/l (activated sludge) (OECD209 Activated Sludge, Respiration Inhibition Test)

##### 3648-18-8 dioctyltin dilaurate

LC50 (96 h) > 0.09 mg/l (*Danio Rerio*) (OECD 203 Fish, Acute Toxicity Test)

EC50 (48 h) > 0.21 mg/l (*Daphnia Magna*) (OECD 202 *Daphnia* sp. Acute Immobilisation Test)

EC50(3h) > 1,000 mg/l (activated sludge) (OECD209 Activated Sludge, Respiration Inhibition Test)

NOEC/72h 0.001 mg/l (*Desmodesmus subspicatus*) (OECD 201 Alga, Growth Inhibition Test)

ErC50 (72h) > 0.002 mg/l (*Desmodesmus subspicatus*) (OECD 201 Alga, Growth Inhibition Test)

### · 12.2 Persistence and degradability

This product hydrolyses in water or wet soil, releasing alcohols and silicic acid.

This Product hydrolyses in water or moist air, releasing methanol and organosilicons connectione.

· **Other information:** Elimination by adsorption onto activated sludge

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

(Contd. on page 10)

GB

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· **Other information:** Elimination by adsorption onto activated sludge

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

WGK 3 stark wassergefährdend



## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal methods**

##### **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

##### **Waste disposal key:**

For this product no waste code number can be determined as per the European Waste List, since the intended use by the consumer. The waste key number must be determined in consultation with the regional waste disposal.

#### **Uncleaned packaging:**

##### **Recommendation:**

Disposal must be made according to official regulations. Packaging must be completely emptied and disposed of properly in accordance with statutory regulations. Packaging that cannot be completely emptied must be disposed of in coordination with the regional disposal company.

## **SECTION 14: Transport information**

<b>UN Number:</b>	UN1292
<b>Proper Shipping Name</b>	Tetraethyl Silicate mixture
<b>Class</b>	3 (fl) Flammable Liquids
<b>Label</b>	3 Flammable Liquids
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Special precautions for user</b>	Warning: Flammable Liquids
<b>Hazard Identification number</b>	30
<b>EMS Number</b>	F-E,S-D
<b>Stowage category</b>	A
<b>Maritime transport in bulk</b>	N/a
<b>Transport/Additional information</b>	Special instruction: ADN, ADR, RID, special instruction 640 D
<b>ADR</b>	
<b>Limited Quantities</b>	5L
<b>Excepted Quantities</b>	Code E1 Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 1000ml
<b>UN "Model Regulation"</b>	<b>UN 1292 Tetraethyl Silicate Mixture, 3, III</b>

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

#### **Hazard pictograms**



Signal Word: Danger

#### **Hazard-determining components of labelling:**

dioctyltin dilaurate  
tetraethyl silicate

#### **· Hazard statements**

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H335	May cause respiratory irritation.

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H373 May cause damage to the immune system through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**National regulations:**

Technical instructions (air)

Class Share in %

NK 25-50

**Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H360D May damage the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.

· **Recommended restriction of use**

Germany  
Austria  
Netherlands  
Slovenia  
Poland  
Latvia  
Ireland  
Northern Ireland  
Hungary

*The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.*

· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*  
*ICAO: International Civil Aviation Organisation*  
*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

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VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

#### **Hazard statements in full**

*This product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of material.*

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.