

SAFETY DATA SHEET

CITRIKLEEN

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name CITRIKLEEN
Product number A3975
UFI UFI: XWQV-A0YY-A002-VUF0

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

Identified uses Detergent. Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,
SPRING ROAD,
SMETHWICK,
WEST MIDLANDS, B66 1PT, ENGLAND
Tel: 0121-525-4000
Fax: 0121-525-4919
lee.baughan@orapiapplied.com

Contact person Lee Baughan

1.4. Emergency telephone number

Emergency telephone 0121 525 4000 (09:00 - 17:00 hrs)

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 Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Human health The product is irritating to eyes and skin. May cause skin sensitisation or allergic reactions in sensitive individuals.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
UFI	UFI: XWQV-A0YY-A002-VUF0
Contains	(R)-p-mentha-1,8-diene, ISOTRIDECANOL, ETHYLATED (3-5 E0), TRISODIUM N-HYDROXYETHYL ETHYLENE DIAMINE TRIACETATE
Supplementary precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

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

d-LIMONENE	30-60%
CAS number: 5989-27-5 EC number: 227-813-5 REACH registration number: 01-2119529223-47-XXXX M factor (Acute) = 1 M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
Dodecylbenzenesulphonic Acid, compound with 2-Aminoethanol	10-30%
CAS number: 26836-07-7 EC number: 248-024-2	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

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DIPROPYLENE GLYCOL MONOMETHYL ETHER 10-30% CAS number: 34590-94-8 EC number: 252-104-2 REACH registration number: 01-2119450011-60-XXXX
Classification Not Classified
ISOTRIDECANOL, ETHYLATED (3-5 E0) 5-10% CAS number: 24938-91-8 EC number: 931-138-8
Classification Eye Dam. 1 - H318 Aquatic Chronic 3 - H412
TRISODIUM N-HYDROXYETHYL ETHYLENE DIAMINE TRIACETATE 1-3% CAS number: 139-89-9 EC number: 205-381-9 REACH registration number: 01-2119972845-22-XXXX
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318
BUTYLATED HYDROXYTOLUENE 0.1-1% CAS number: 128-37-0 EC number: 204-881-4 REACH registration number: 01-2119480433-40-XXXX M factor (Acute) = 1 M factor (Chronic) = 1
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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

General information	Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	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 if any discomfort continues.

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

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Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Skin irritation. Prolonged skin contact may cause redness and irritation. Allergic rash.
Eye contact	Irritation and redness, followed by blurred vision.

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

Notes for the doctor	No specific recommendations.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Heating may generate flammable vapours. This product does not sustain combustion.
Hazardous combustion products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	Use water to keep fire exposed containers cool and disperse vapours.
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 contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Take care as floors and other surfaces may become slippery.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if safe to do so. Inform authorities if large amounts are involved. Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Contain spillage with sand, earth or other suitable non-combustible material. Wash thoroughly after dealing with a spillage.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Avoid contact with skin and eyes. Avoid spilling. Keep away from heat, sparks and open flame.
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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 oxidising materials, heat and flames. Avoid contact with oxidising agents.
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Storage class Chemical storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

BUTYLATED HYDROXYTOLUENE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 308 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 283 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 37.2 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 121 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 36 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 19 mg/l - Fresh water, Intermittent release; 190 mg/l - marine water; 1.9 mg/l - STP; 4168 mg/l - Sediment (Freshwater); 70.2 mg/kg - Sediment (Marinewater); 7.02 mg/kg - Soil; 2.74 mg/kg

TRISODIUM N-HYDROXYETHYL ETHYLENE DIAMINE TRIACETATE (CAS: 139-89-9)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 88 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 10 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 22 mg/m³</p> <p>General population - Inhalation; Long term local effects: 2.5 mg/m³</p> <p>General population - Oral; Long term systemic effects: 12 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 2500 µg/l - Fresh water, Intermittent release; 1920 µg/l - marine water; 250 µg/l - STP; 50 mg/l - Sediment (Freshwater); 107 µg/kg - Sediment (Marinewater); 10.7 µg/kg - Soil; 840 µg/kg

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

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DNEL	<p>Workers - Inhalation; Long term systemic effects: 3.5 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 0.86 mg/kg/day</p> <p>General population - Dermal; Long term systemic effects: 0.25 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 0.25 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.199 µg/l - Fresh water, Intermittent release; 1.99 µg/l - marine water; 0.02 µg/l - STP; 0.17 mg/l - Sediment (Freshwater); 99.6 µg/kg - Sediment (Marinewater); 9.96 µg/kg - Soil; 47.69 µg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Thickness: > 0.4 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Provide eyewash station. Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Do not smoke in work area.

Respiratory protection

No specific recommendations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid. Liquid.
Colour	Amber.
Odour	Orange.
pH	pH (concentrated solution): 10.6 - 11.4 @ 20°C
Flash point	50°C Does not support combustion at 61°C
Relative density	0.96 - 0.97 @ 20°C
Solubility(ies)	Miscible with water.

9.2. Other information

Other information	None.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with the following materials: Oxidising agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Heating may generate the following products: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 2,738.08

Inhalation Repeated exposure may cause chronic upper respiratory irritation.

Ingestion Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact. Product has a defatting effect on skin. May cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation.

Eye contact Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting.

Toxicological information on ingredients.

Dodecylbenzenesulphonic Acid, compound with 2-Aminoethanol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

DIPROPYLENE GYLCOL MONOMETHYL ETHER

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 8,740.0

Species Rat

ATE oral (mg/kg) 8,740.0

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 9,510.0 mg/kg)

Species Rabbit

ATE dermal (mg/kg) 9,510.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3,404.47

Species Rat

ATE inhalation (vapours mg/l) 3,404.47

ISOTRIDECANOL, ETHYLATED (3-5 E0)**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rabbit

TRISODIUM N-HYDROXYETHYL ETHYLENE DIAMINE TRIACETATE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 1,612.0 mg/kg)

Species Rat

ATE oral (mg/kg) 1,612.0

BUTYLATED HYDROXYTOLUENE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 2,930.0 mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rabbit

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological information

Ecotoxicity Dangerous for the environment.

12.1. Toxicity

Toxicity Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

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d-LIMONENE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 35 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic aquatic toxicity

M factor (Chronic) 1

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 1000 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1919 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 6999 mg/l, Scenedesmus subspicatus
EC₅₀, 75 hours: > 969 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.5 mg/l, Daphnia magna

ISOTRIDECANOL, ETHYLATED (3-5 E0)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 1-10 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 1-10 mg/l,

BUTYLATED HYDROXYTOLUENE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

Ecological information on ingredients.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

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Persistence and degradability The substance is readily biodegradable.

Biodegradation - Degradation 75%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient log Pow: 1.01

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Adsorption/desorption coefficient Water - Koc: 0.28 @ °C

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 None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) Environmentally Hazardous Substance, Liquid, N.O.S. (Contains d-Limonene)

Proper shipping name (IMDG) Environmentally Hazardous Substance, Liquid, N.O.S. (Contains d-Limonene)

Proper shipping name (ICAO) Environmentally Hazardous Substance, Liquid, N.O.S. (Contains d-Limonene)

Proper shipping name (ADN) Environmentally Hazardous Substance, Liquid, N.O.S. (Contains d-Limonene)

14.3. Transport hazard class(es)

ADR/RID class 9

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ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
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).

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Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>GHS: Globally Harmonized System.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>UN: United Nations.</p> <p>IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).</p>
Revision date	13/11/2020
Revision	13
Supersedes date	16/07/2019
SDS status	Approved.
Hazard statements in full	<p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
Signature	Health and Safety Manager

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.