

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

1.1 COMPANY IDENTIFICATION

Company's Name: Trulux Pty Ltd
Email address: info@trulux.com.au
Website: www.trulux.com.au
Contact number: +61 (02) 9975 2655
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

1.2 PRODUCT IDENTIFICATION

Trade name: Kangaroo Apple Extract
Reference number: RMTR-0287A
Classification: Refer to clause 2

1.3 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Raw Material
Uses advised against: No further information is available.

1.4 DETAILS OF THE SUPPLIER OF THE SUBSTANCE INFORMATION SHEET

Supplier's Company: Trulux Pty Ltd
Website: www.trulux.com.au
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

Trade Name: Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Doc: RMSDS - Kangaroo Apple Extract

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TRULUX SAFETY DATA SHEET

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1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARDS IDENTIFICATION

Poison Schedule: Unscheduled.

Hazardous Chemical - According to the WHS Regulations and the ADG Code; Globally
Non-Dangerous Goods: Harmonized System of Classification and Labelling of Chemicals [GHS];
 Regulation (EC) No 1223/2009 of the European Parliament and the
 Council of 30 November 2009 on cosmetic products (the "Cosmetics
 Regulation" or the "Regulation"), Governing the composition, labelling
 and packaging of finished cosmetic products.

Classification: Skin Corrosion/Irritant Category 2
 Serious Eye Damage/Eye Irritation Category 2A
 Specific Target Organ Toxicity Single Exposure Category 3

Label Elements

- Signal Word: Warning

 - Hazard Statements: H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

 - Precautionary Statements - P101 If medical advice is needed, have product container or label at
Prevention: hand.
 P103 Read label before use.
 P271 Use only outdoors or in a well-ventilated area.
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Trade Name: Kangaroo Apple Extract

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TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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- P261 Avoid breathing mist/vapour/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - Precautionary Statements - Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

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.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
 - Precautionary Statements - Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.
 - Precautionary Statements - Disposal:

P501 Dispose of contents/container in accordance with local / national / international regulations.

3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EC Number	Concentration (%)
Glycerin	56-81-5	200-289-5	49 - 70
Water/Aqua	7732-18-5	231-791-2	19 - 40
Sodium Benzoate	532-32-1	208-534-8	≤ 0.5
Citric Acid	77-92-9	201-069-1	≤ 0.4

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

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Potassium Sorbate	24634-61-5	246-376-1	≤ 0.3
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* Cellular Extraction of Solanum aviculare Fruit. Natural extract preserved with Sodium Benzoate; Citric Acid; Potassium Sorbate

4 FIRST AID MEASURES

- Inhalation:** If fumes or combustion products are inhaled remove from contaminated area; Lay patient down. Keep warm and rested; Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures; Apply artificial respiration if not breathing, preferably with a demand value resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary; Transport to hospital, or doctor, without delay.
- Ingestion:** Immediately give a glass of water; First aid is not generally required. If in doubt, contact a Poisons Information Centre or doctor.
- Skin contact:** Immediately remove all contaminated clothing, including footwear; Flush skin and hair with running water (and soap if available); Seek medical attention in event of irritation.
- Eye contact:** Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

Rev.: 03

TR Ref. Number: RMTR-0287A

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray or fog; Foam; Dry chemical powder; BCF (where regulations permit).

Special hazards arising from the substance or mixture: FIRE INCOMPATIBILITY: Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Advice for firefighters

- Fire Fighting: Alert Fire Brigade and tell them location and nature of hazard; Wear full body protective clothing with breathing apparatus; Prevent, by any means available, spillage from entering drains or watercourse; Use water delivered as a fine spray to control fire and cool adjacent area.
- Fire and Explosion Hazard: Combustible; Slight fire hazard when exposed to heat or flame; Heating may cause expansion or decomposition leading to violent rupture of CONTAINERS; On combustion, may emit toxic fumes or carbon monoxide (CO); Combustion products include; carbon dioxide (CO₂) acrolein, other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

6 ACCIDENTAL RELEASE MEASURES

Methods of Material for Contamination and Clean Up

- Minor Spills: Remove all ignition sources;
Clean up all spills immediately;
Avoid breathing vapours and contact with skin and eyes;
Control personal contact with the substance, by using protective equipment.

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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- Major Spills: MODERATE HAZARD: Clear area of personnel and move upwind;
Alert Fire Brigade and tell them location and nature of hazard;
Wear breathing apparatus plus protective gloves.
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7 HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation; Wear protective clothing when risk of exposure occurs; Prevent concentration in hollows and sumps; DO NOT allow clothing wet with substance to stay in contact with the skin.

Other Information: Store in original containers; Keep containers securely sealed; No smoking, naked lights or ignition sources; Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities: Packaging as recommended by manufacturer; Check all containers are clearly labelled and free from leaks.

Storage Incompatibility: Avoid reaction with oxidising agents

X: Must not be stored together; O: May be stored together with specific preventions; +: May be stored together

+: Flammable

+: Respiratory

+: Warning

+: Corrosive

X: Explosive

O: Poison

O: Oxidizing

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

The product is not classified. No control parameters are to be mentioned.

Exposure Controls:

- General Engineering Measures

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide third high level of protection;

The basic types of engineering controls are; Process controls which involve changing the way a job activity or process is done to reduce the risk;

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and removes' air in the work environment.

- Hand and Feet Protection

Wear chemical protective gloves, e.g. PVC; Wear safety footwear or safety gumboots, e.g. Rubber; The selection of suitable gloves does not only depend on the material, but also on further marks of quality, which vary from manufacturer to manufacturer; Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application; The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice; Personal hygiene is a key element of effective hand care.

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

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- **Eye/Face Protection** Safety glasses with side shield; Chemical goggles; Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
 - **Other Protection** Overalls; PVC Apron; Barrier Cream.

The following Australian Standards will provide general advice regarding safety clothing and equipment:

AS/NZS 1715: Respiratory Equipment

AS 1161: Protective Gloves

AS2919: Industrial Clothing

AS1336/AS/NZS 1337: Industrial Eye Protection

AS/NZS2210: Occupational Protective Footwear

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Mobile liquid
Odour:	Characteristic
Colour:	Translucent yellow to brown
Refractive Index @ 20 °C:	1.370 - 1.550
Specific Gravity @ 20 °C:	1.130 - 1.280
Flash Point:	160 °C
Evaporation Rate:	Non-volatile
Water solubility:	Soluble
Explosive properties:	Not explosive
Oxidizing Properties:	Not oxidising
pH:	3.00 - 5.00

Trade Name: Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Doc: RMSDS - Kangaroo Apple Extract

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

10 STABILITY AND REACTIVITY

Chemical Stability: This product is chemically stable.

11 TOXICOLOGICAL INFORMATION

Inhaled: The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage; Not normally a hazard due to non-volatile nature of product.

Ingestion: Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney (damage is evident; Ingestion of large quantities may cause nausea, diarrhoea and vomiting.

Skin Contact: The material may accentuate any pre-existing dermatitis condition; Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions; Open cuts abraded, or irritated skin should not be exposed to this material; Entry into the blood stream, though, for example, cuts abrasions or lesions, following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis, which is characterised by redness, swelling and blistering.

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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Eye: Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals; Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).

Chronic: Long term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems; Substance accumulation, in the human body, may occur and may cause some concern following or long-term occupational exposure.

SCCNFP ALLERGENS ANNEX III – COSMETIC DIRECTIVE 2003/15/EC

7th Amendment Detection Limit 0.001%

CONSTITUENT	IFRA	EFFA	CAS	EC	RANGE
Amyl Cinnamal	Yes	No	122-40-7	204-541-5	Not detected
Amyl Cinnamyl Alcohol:	Yes	No	101-85-9	202-982-8	Not detected
Anise Alcohol:	No	Yes	105-13-5	203-273-6	Not detected
Benzyl Alcohol:	No	Yes	100-51-6	202-859-9	Not detected
Benzyl Benzoate:	No	Yes	120-51-4	204-402-9	Not detected
Benzyl Cinnamate:	No	Yes	103-41-3	203-109-3	Not detected
Benzyl Salicylate:	No	Yes	118-58-1	204-262-9	Not detected
Cinnamal:	Yes	Yes	104-55-2	203-213-9	Not detected
Cinnamyl Alcohol:	Yes	Yes	104-54-1	203-212-3	Not detected
Citral:	Yes	Yes	5392-40-5	226-394-6	Not detected
Citronellol:	No	Yes	5392-40-5	203-375-0	Not detected
Coumarin:	No	Yes	91-64-5	202-086-7	Not detected
Eugenol:	Yes	Yes	97-53-0	202-589-1	Not detected
Farnesol:	Yes	Yes	4602-84-0	225-004-1	Not detected
Geraniol:	No	Yes	106-24-1	203-377-1	Not detected
Hexyl Cinnamal:	Yes	No	101-86-0	202-983-3	Not detected
Hydroxycitronella:	Yes	No	107-75-5	203-518-7	Not detected

Trade Name: Kangaroo Apple Extract

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TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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Isoeugenol:	Yes	Yes	97-54-1	202-590-7	Not detected
Butylphenyl Methylpropional:	Yes	No	80-54-6	201-289-8	Not detected
d-Limonene:	Yes	Yes	5989-27-5	227-813-5	Not detected
Linalool:	Yes	Yes	78-70-6	201-134-4	Not detected
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde:	No	No	31906-04-4	250-863-4	Not detected
Methyl 2-Octynoate:	Yes	No	111-12-6	203-836-6	Not detected
Alpha-Isomethyl Ionone:	Yes	No	127-51-5/ 90028-68-5	204-846-3/ 289-861-30	Not detected
Evernia Prunastri Extract [Oakmoss]:	Yes	No	9000-50-4/ 6817-10-2		Not detected
			90028-67-4/	289-860-8	Not detected
Evernia Furfuracea Extract[Treemoss]:	Yes	No	68648-41-9		Not detected

ADDITIONAL EFFA LISTED SENSITISERS & IFRA NOTIFIABLE SUBSTANCES

Detection Limit 0.001%

CONSTITUENT	IFRA	EFFA	CAS	EC	RANGE
No Additional Sensitisers:	No	No	Not allocated	Not allocated	Not detected
No Additional Notifiable Substances:	No	No	Not allocated	Not allocated	Not detected

12 ECOLOGICAL INFORMATION

TOXICITY:

Ingredient	End Point	Test Duration (hr)	Species	Value	Source
Glycerin	LC50	96	Fish	> 11 mg/L	2
Glycerin	EC50	96	Algae or other aquatic plants	77712.039 mg/L	3
Glycerin	ECO	24	Crustacea	> 500 mg/L	1

Legend:

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substance – Eco toxicological Information – Aquatic Toxicity 3. EPIWIN Suite V3.12 – Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database – Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) – Bio concentration Data 7. METI (Japan) – Bio concentration Data 8.

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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Vendor Data For Glycerin: Low Kow: -2.66 to -2.47, Atmospheric Fate: Glycerol is broken down in the air by hydroxyl radicals the half-life for this process is 6.8 hours. However, only a negligible amount of the substance will move to the atmospheric compartment. Terrestrial Fate: Only a negligible amount of Glycerin will move into the soil compartment, if released into the environment. Aquatic Fate: Glycerol is considered to be readily biodegradable in the aquatic environment. DO NOT discharge into sewer or waterways.

Persistence and Degradability: LOW persistence level Water/Soil/Air; 4 Use according to good working practice; pollution to soil, rivers and the ocean.

Bioaccumulative Potential: Glycerin: LOW (LogKOW = 1.76).

Mobility in Soil: Glycerin: HIGH (KOC = 1).

13 DISPOSAL CONSIDERATIONS

Product/Packaging Disposal: Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked; A Hierarchy of Control seems to be common – the user should investigate: Reduction; Reuse; Recycle; Disposal [if all else fails].

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal; In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first; Where in doubt contact the responsible authority; Recycle wherever possible or consult manufacturer for recycling options; Consult State Land Waste Authority for disposal; 4 Bury or

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

incinerate residue at an approved site; Recycle containers if possible or dispose of in an authorised landfill.

14 TRANSPORT INFORMATION

MARINE POLLUTANT:	No
HAZCHEM:	Not applicable
LAND TRANSPORT [AGD]:	Not regulated for transport of Dangerous Goods.
AIR TRANSPORT [ICAO-IATA/DGR]:	Not regulated for transport of Dangerous Goods
SEA TRANSPORT [IMDG-Code/GGVSee]:	Not regulated for transport of Dangerous Goods
UN NUMBER:	Not required
PROPER SHIPPING NAME:	Not required
TECHNICAL SHIPPING NAME:	Not applicable
DG CLASS/SUBSIDIARY RISK:	Not applicable
PACKAGING GROUP:	Not allocated
SPECIAL PRECAUTIONS:	Not established
HAZCHEM CODE:	Not allocated

15 REGULATORY AND OTHER INFORMATION

Safety, health and environmental regulations specific for the mixture or substance:

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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The substance is not listed as a hazardous chemical under the following international agreements:

Montreal Protocol on Substances that Deplete the Ozone Layer;

Stockholm Convention on Persistent Organic Pollutants;

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade;

Basel convention on the Control of Trans boundary Movements of Hazardous Wastes and their Disposal;

International Convention for the Prevention of Pollution from Ships (MARPOL);

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP);

Agriculture and Veterinary Chemicals Code Act 1994;

Australian Inventory of chemical Substances (AICS).

SUBSTANCE CHEMICAL NAME

Solanum aviculare Fruit Extract

NATIONAL INVENTORY

NATIONAL INVENTORY	COUNTRY STATUS	STATUS ✓ ✗
Australian Inventory of Chemical Substances (AICS):	AUSTRALIA	✗
Domestic Substances List (DSL):	CANADA	✗
Non-Domestic Substances List (NDSL):	CANADA	✗
Inventory of Existing Chemical Substances Produced for Imported to China (IECSC):	CHINA	✓
European Chemicals Agency (ECHA-EINECS-ELINCS-NLP-COSING):	EUROPE	✓
Japanese Existing and New Chemical Substances Inventory (ENCS):	JAPAN	✗
Korea Existing Chemicals Inventory (KECI):	SOUTH KOREA	✗
New Zealand Inventory (NZIoC):	NEW ZEALAND	✗
Philippines Inventory of Chemicals and chemical Substances (PICCS):	THE PHILLIPPINES	✗
Toxic Substances Control Act (TSCA):	USA	✗
Taiwan Chemical Substance Inventory (TCSI):	TAIWAN	✗
Vietnam National Chemical Database System	VIETNAM	✗

Trade Name: Kangaroo Apple Extract

Doc: RMSDS - Kangaroo Apple Extract

TR Ref. Number: RMTR-0287A

Rev.: 03

Rev. Date: 02/12/2021

TRULUX SAFETY DATA SHEET

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16 OTHER INFORMATION

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition or other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user.

This sheet completes the technical sheets but it does not replace them. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and Trulux Pty Ltd assumes no legal responsibility or liability whatsoever resulting from its use. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

This listing must not be considered exhaustive. It does exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regard to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use.

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