



**MATERIAL SAFETY DATA SHEET**  
**Citrus 101**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

**Product Name** Citrus 101

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

**Application:** Cleaning agent.  
**Uses Advised Against** For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.

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

**Supplier** Autosmart Australia  
11 Darrambal Close  
Rathmines  
NSW 2283  
Australia  
www.autosmartinternational.com  
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST) (General Information. Transport Information. Mild Medical Information)  
autosmart@autosmartaustralia.com.au

**Contact Person** Mr. Russell Butler

**Manufacturer** Autosmart Australia  
11 Darrambal Close  
Rathmines  
NSW 2283  
Australia  
www.autosmartinternational.com  
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST) (General Information. Transport Information. Mild Medical Information)  
autosmart@autosmartaustralia.com.au

**1.4. Emergency telephone number**

Emergency No: +44 7808 971321 (24hrs) (Autosmart International, UK)  
General Information. Transport Information. Mild medical Information:-  
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)

**SECTION 2: HAZARDS IDENTIFICATION**

**Risk Phrases** R36 Irritating to eyes.

**Safety Phrases** S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection.

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

**2.2. Label elements**

**Detergent Labelling:** < 5% non-ionic surfactants  
phosphates  
cationic surfactants  
perfumes

## Citrus 101

## Labelling



Irritant

## Risk Phrases

R36

Irritating to eyes.

## Safety Phrases

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39

Wear suitable gloves and eye/face protection.

**2.3. Other hazards**

This product does not contain any PBT or vPvB Substances.

**Statement Of Hazardous Nature**

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). NON-DANGEROUS GOODS (According to ADG Code).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

<b>Tetrapotassium Pyrophosphate</b>	<b>2-5%</b>
<b>CAS-No.: 7320-34-5</b>	<b>EC No.: 230-785-7</b>
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548) Xi;R36.
<b>C9-C11 Alcohol ethoxylate (6)</b>	<b>2-5%</b>
<b>CAS-No.: 68439-46-3</b>	<b>EC No.:</b>
	<b>Registration Number: Polymer</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548) Xn;R22. Xi;R41.
<b>QUARTERNARY COCO ALKYLAMINE ETHOXYLATE</b>	<b>1-2%</b>
<b>CAS-No.: 68989-03-7</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Eye Irrit. 2 - H319 Aquatic Chronic 2 - H411	Classification (67/548) Xi;R36. N;R51/53.
<b>Alcohols, C9-11, Ethoxylated 2.5 EO</b>	<b>1-2%</b>
<b>CAS-No.: 68439-46-3</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Eye Dam. 1 - H318	Classification (67/548) Xi;R41.

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Amines, C12-18-alkyldimethyl, N-oxides		0.1-0.2%
CAS-No.: 68955-55-5	EC No.: 273-281-2	
Classification (EC 1272/2008)	Classification (67/548)	
Skin Irrit. 2 - H315	Xi;R38,R41.	
Eye Dam. 1 - H318	N;R50.	
Aquatic Acute 1 - H400		

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

## SECTION 4: FIRST AID MEASURES

### Susdp First Aid Instructions

For advice, contact a Poisons Information Centre (Phone 13 1126) or a doctor.

#### 4.1. Description of first aid measures

##### **Inhalation**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

##### **Ingestion**

Remove victim immediately from source of exposure. Immediately rinse mouth and drink plenty of water (200-300 ml). NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention if any discomfort continues.

##### **Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Rinse the skin immediately with lots of water. Use suitable lotion to moisturise skin. Get medical attention if irritation persists after washing.

##### **Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

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

##### **General information**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

##### **Inhalation**

No specific symptoms noted.

##### **Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

##### **Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

##### **Eye contact**

May cause blurred vision and serious eye damage.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Extinguishing media**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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

#### **Hazardous Combustion Products**

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

#### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

#### **Specific hazards**

The product is non-combustible. If heated, irritating vapours may be formed. Acrid smoke/fumes of: Oxides of: Carbon. Nitrogen.

### 5.3. Advice for firefighters

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### Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

### Protective equipment for fire-fighters

Face mask, protective gloves and safety helmet. Use protective equipment appropriate for surrounding materials.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For personal protection, see section 8.

### 6.2. Environmental precautions

Do not discharge onto the ground or into water courses. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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

Wear necessary protective equipment. Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Flush to sewer if local regulations permit. Wash thoroughly after dealing with a spillage.

### 6.4. 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

Avoid spilling, skin and eye contact.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep above the chemical's freezing point to avoid rupturing the container.

#### Storage Class

Chemical storage.

### 7.3. 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

#### Ingredient Comments

No exposure limits noted for ingredient(s).

#### C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

##### Ingredient Comments

No exposure limits noted for ingredient(s).

#### Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)

##### Ingredient Comments

No exposure limits noted for ingredient(s).

#### Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)

##### Ingredient Comments

No exposure limits noted for ingredient(s).

#### Tetrapotassium Pyrophosphate (CAS: 7320-34-5)

##### Ingredient Comments

No exposure limits noted for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment

## Citrus 101

**Process Conditions**

Provide eyewash station.

**Engineering measures**

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

**Respiratory equipment**

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

**Hand protection**

Use protective gloves made of: Rubber (natural, latex). Polyvinyl chloride (PVC). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Eye protection**

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**Other Protection**

Provide eyewash station.

**Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Liquid
<b>Colour</b>	Orange.
<b>Odour</b>	Characteristic. Pleasant, agreeable.
<b>Solubility</b>	Soluble in water. Miscible with water
<b>Boiling Point (°C)</b>	~100 760 mm Hg
<b>Melting point (°C)</b>	~ 0
<b>Relative density</b>	~1.052 (20°C)
<b>Vapour density (air=1)</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>pH-Value, Conc. Solution</b>	~ 10
<b>Viscosity</b>	~ 1 cSt
<b>Decomposition temperature (°C)</b>	Not available.
<b>Odour Threshold, Lower</b>	Not available.
<b>Odour Threshold, Upper</b>	Not available.
<b>Flash point (°C)</b>	Not applicable.
<b>Auto Ignition Temperature (°C)</b>	Not applicable.
<b>Flammability Limit - Lower(%)</b>	Not applicable.
<b>Flammability Limit - Upper(%)</b>	Not applicable.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.

**Citrus 101****Other Information**

Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken.

**9.2. Other information**

Volatile Organic Compound (VOC) 0 g/litre

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions****Hazardous Polymerisation**

Will not polymerise.

**10.4. Conditions to avoid**

No specific conditions are likely to result in a hazardous situation.

**10.5. Incompatible materials****Materials To Avoid**

Strong acids. Strong oxidising substances.

**10.6. Hazardous decomposition products**

No specific hazardous decomposition products noted.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Toxicological information**

No significant health hazards when used for designed purpose and application and when used in accordance with instructions.

**Other Health Effects**

This substance has no evidence of carcinogenic properties. IARC Not Listed. OSHA Not Regulated. NTP Not Listed.

**Skin Corrosion/Irritation****Human Skin Model Test**

Scientifically unjustified.

**Extreme pH**

Moderate pH (> 2 and < 11.5)

Classification based on Conventional Method, and In Vitro Approaches - Corrosive or Irritant by measuring pH and Acid/Alkali Reserve. Irritating.

**General information**

This product has low toxicity. Only large volumes may have adverse impact on human health.

**Inhalation**

May cause irritation to the respiratory system.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

Irritating to skin.

**Eye contact**

Irritating to eyes.

**Health Warnings**

Serious long-term effects are not known to be related to this type of product.

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**Route of entry**

Ingestion. Skin and/or eye contact.

**Medical Symptoms**

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

**Medical Considerations**

Skin disorders and allergies.

**Toxicological Information on Ingredients:****QUARTERNARY COCO ALKYLAMINE ETHOXYLATE (CAS: 68989-03-7)****Toxic Dose 1 - LD 50**

2000 mg/kg (oral rat)

**C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)****Toxic Dose 1 - LD 50**

2000 mg/kg (oral rat)

**Toxic Conc. - LC 50**

5 mg/l/4h (inh-rat)

**Other Health Effects**

This substance has no evidence of carcinogenic properties.

**Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)****Toxic Dose 1 - LD 50**

>2000 mg/kg (oral rat)

**Toxic Conc. - LC 50**

5mg/L Not noted.

**Other Health Effects**

This substance has no evidence of carcinogenic properties.

**Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)****Toxic Dose 1 - LD 50**

>2000 mg/kg (oral rat)

**Tetrapotassium Pyrophosphate (CAS: 7320-34-5)****Toxic Dose 1 - LD 50**

2000 mg/kg (oral rat)

**Other Health Effects**

This substance has no evidence of carcinogenic properties. IARC Not Listed. NTP Not Listed. ACGIH Carcinogen List.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product contains a substance which is harmful to aquatic organisms. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product is not expected to be hazardous to waste water treatment processes. The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days. The product does not contain organically bound halogen. The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

**12.1. Toxicity****Acute Toxicity - Fish**

Not determined.

**Acute Toxicity Aquatic Invertebrates**

Not determined.

**Acute Toxicity - Aquatic Plants**

Not determined.

**Acute Toxicity - Microorganisms**

Not determined.

**Acute Toxicity - Terrestrial**

Not determined.

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Ecological Information on Ingredients:QUARTERNARY COCO ALKYLAMINE ETHOXYLATE (CAS: 68989-03-7)

LC 50, 96 Hrs, Fish mg/l

28

EC 50, 48 Hrs, Daphnia, mg/l

100

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

LC 50, 96 Hrs, Fish mg/l

10

EC 50, 48 Hrs, Daphnia, mg/l

10

IC 50, 72 Hrs, Algae, mg/l

10

Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)

LC 50, 96 Hrs, Fish mg/l

&lt;=10

EC 50, 48 Hrs, Daphnia, mg/l

&lt;=10

IC 50, 72 Hrs, Algae, mg/l

&lt;=10

Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)

LC 50, 96 Hrs, Fish mg/l

&lt;1

**12.2. Persistence and degradability****Degradability**

The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

Ecological Information on Ingredients:C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**Degradability**

The product is biodegradable. This surfactant complies 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.

Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)**Degradability**

The product is easily biodegradable.

Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)**Degradability**

The product is biodegradable.

Tetrapotassium Pyrophosphate (CAS: 7320-34-5)**Degradability**

The product is biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient**

Not available.



## Citrus 101

**Ecological Information on Ingredients:****C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**Tetrapotassium Pyrophosphate (CAS: 7320-34-5)****Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

**12.4. Mobility in soil****Mobility:**

The product is soluble in water.

**Ecological Information on Ingredients:****C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)****Mobility:**

The product is soluble in water.

**Alcohols, C9-11, Ethoxylated 2.5 EO (CAS: 68439-46-3)****Mobility:**

The product is soluble in water.

**Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5)****Mobility:**

The product is soluble in water.

**Tetrapotassium Pyrophosphate (CAS: 7320-34-5)****Mobility:**

The product is soluble in water.

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

This product does not contain any PBT or vPvB Substances.

**Ecological Information on Ingredients:****C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**

Not Classified as PBT/vPvB by current EU criteria.

**Tetrapotassium Pyrophosphate (CAS: 7320-34-5)**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

**Ecological Information on Ingredients:****Tetrapotassium Pyrophosphate (CAS: 7320-34-5)**

The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

The packaging must be empty (drop-free, when inverted).

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

**SECTION 14: TRANSPORT INFORMATION****General**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADG).

## Citrus 101

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)****Transport Labels**

No transport warning sign required.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards****Environmentally Hazardous Substance/Marine Pollutant**

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****Poisons Schedule Number**

No allocated Poison schedule number.

**National Regulations And References**

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). National Code of Practice for the Preparation of Material Safety Data Sheets. Approved Criteria for Classifying Hazardous Substances. Exposure Standards for Atmospheric Contaminants in the Occupational Environment. Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment. National Code of Practice for the Labelling of Workplace Substances. National Model Regulations for the Control of Workplace Hazardous Substances. National Code of Practice for the Control of Workplace Hazardous Substances. National Standard for the Storage and Handling of Workplace Dangerous Goods. National Code of Practice for the Storage and Handling of Workplace Dangerous Goods. Guidance Note for Placarding Stores for Dangerous Goods and Specified Hazardous Substances. Guidance Note for the Assessment of Health Risks Arising from Hazardous Substances in the Workplace. National Standard for the Control of Major Hazard Facilities. National Code of Practice for the Control of Major Hazard Facilities.

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

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**Health And Environmental Listings**

Regulation EC 689/2008 concerning the export and import of dangerous chemicals.

**Water hazard classification**

WGK 1

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****General information**

Only trained personnel should use this material.

**Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Citrus 101****Revision Date** 08/10/2013**Revision** 2**Supersedes date** 12/10/2011**Risk Phrases In Full**

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50 Very toxic to aquatic organisms.

**Hazard Statements In Full**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Disclaimer**

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.