



## SAFETY DATA SHEET

### Tango

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, December 2011

#### SECTION 1: Identification: Product identifier and chemical identity

##### Product identifier

**Product name** Tango

**Product No.** 032-13

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

**Application** Car maintenance product. - Dressing

**Uses advised against** This product is not recommended for any industrial, professional or consumer use other than the Identified uses above. For professional use only.

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

**Supplier** Autosmart Australia  
11 Darrambal Close  
Rathmines  
NSW 2283  
Australia  
[www.autosmartaustralia.com.au](http://www.autosmartaustralia.com.au)  
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](mailto:autosmart@autosmartaustralia.com.au)

**Contact Person** Mr. Russell Butler

**Manufacturer** Autosmart International Ltd..  
Lynn Lane  
Shenstone, nr Lichfield  
Staffordshire WS14 0DH  
Great Britain  
[www.autosmartinternational.com](http://www.autosmartinternational.com)  
Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
Fax: +44 (0) 1543 481549 (09:00 - 17:00)  
[info@autosmartinternational.com](mailto:info@autosmartinternational.com)

##### Emergency telephone number

**Emergency telephone** 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)

**National emergency telephone number** Poison Information Hotline: 13 11 26

#### SECTION 2: Hazard(s) identification

##### Classification of the substance or mixture

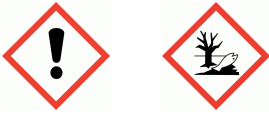
**Physical hazards** Not Classified

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<b>Health hazards</b>	Skin Irrit. 2 - H315
<b>Environmental hazards</b>	Aquatic Chronic 2 - H411

## Label elements

### Pictogram



**Signal word** Warning

**Hazard statements**  
 H315 Causes skin irritation.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P391 Collect spillage.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition and information on ingredients

### Mixtures

<b>Naphtha (petroleum), hydrodesulfurized heavy</b>	<b>5&lt;10%</b>
CAS number: 64742-82-1	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
<b>2,2'-(Octadec-9-enylimino)bisethanol</b>	<b>2&lt;3%</b>
CAS number: 25307-17-9	
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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<b>Dicocodimethylammonium chloride</b> <span style="float: right;"><b>0.7&lt;1.0%</b></span> CAS number: 61789-77-3 M factor (Acute) = 1
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
<b>PROPAN-2-OL</b> <span style="float: right;"><b>0.2&lt;0.5%</b></span> CAS number: 67-63-0 Substance with a Community workplace exposure limit.
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336
<b>d-LIMONENE</b> <span style="float: right;"><b>0.1&lt;0.2%</b></span> CAS number: 5989-27-5 M factor (Acute) = 1
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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

### SECTION 4: First aid measures

#### Description of first aid measures

##### **General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

##### **Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

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<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin Contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Redness. Irritating to skin.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
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<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
<b>Hazchem Code</b>	•3Z

### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.
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#### Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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#### Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
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### SECTION 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.
<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

**Storage class** Miscellaneous hazardous material storage.

### Specific end use(s)

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

## SECTION 8: Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

##### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): 400 ppm 983 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 500 ppm 1230 mg/m<sup>3</sup>

##### 2,2'-(Octadec-9-enylimino)bisethanol (CAS: 25307-17-9)

**Ingredient comments** No exposure limits known for ingredient(s).

##### Dicocodimethylammonium chloride (CAS: 61789-77-3)

**Ingredient comments** No exposure limits known for ingredient(s).

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

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<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Orange.
<b>Odour</b>	Pleasant, agreeable.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): ~ 8.1    pH (diluted solution): ~ 6.7 @ 1%
<b>Melting point</b>	~0°C
<b>Initial boiling point and range</b>	~100°C @
<b>Flash point</b>	> 62°C CC (Closed cup).
<b>Evaporation rate</b>	Not available.
<b>Flammability Limit - Lower(%)</b>	Not available.
<b>Other flammability</b>	This product does not sustain combustion, according to the sustained combustibility test L.2, Part III, section 32 of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	~ 0.965 @ (20°C)°C
<b>Solubility Value (g/100g H<sub>2</sub>O 20°C)</b>	Miscible with water.
<b>Partition coefficient</b>	Not available.

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<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 79 g/litre.

### SECTION 10: Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 25,000.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

**Animal data** Irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.



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### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **General information**

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

### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

### **Ingestion**

May cause irritation.

### **Skin Contact**

Redness. Irritating to skin.

### **Eye contact**

May cause temporary eye irritation.

### **Acute and chronic health hazards**

No specific long-term effects known. Prolonged or repeated exposure may cause the following adverse effects: Defatting, drying and cracking of skin.

### **Route of entry**

Ingestion Inhalation Skin and/or eye contact

### **Target Organs**

No specific target organs known.

### **Medical Symptoms**

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

### **Medical considerations**

Allergies.

### Toxicological information on ingredients.

#### Naphtha (petroleum), hydrodesulfurized heavy

**Other health effects** There is no evidence that the product can cause cancer.

#### Distillates (petroleum), hydrotreated light.

##### Acute toxicity - oral

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

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

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### Skin corrosion/irritation

**Animal data** Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

**Human skin model test** Not available.

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

### Respiratory sensitisation

**Respiratory sensitisation** There is no evidence that the material can lead to respiratory hypersensitivity.

### Skin sensitisation

**Skin sensitisation** Buehler test: - Guinea pig: Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** : Negative. This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** : Negative. This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 750 mg/kg, Oral, Rat

**Inhalation** No specific health hazards known.

**Ingestion** Harmful: may cause lung damage if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Skin Contact** No specific health hazards known.

**Eye contact** No specific health hazards known.

**Medical Symptoms** Skin irritation.

### Dicocodimethylammonium chloride

**Other health effects** There is no evidence that the product can cause cancer.

### PROPAN-2-OL

**Other health effects** There is no evidence that the product can cause cancer.

### Acute toxicity - oral

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

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 16.4

**Species** Rabbit

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### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Carcinogenicity

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

**Inhalation** Drowsiness, dizziness, disorientation, vertigo.

**Ingestion** No specific health hazards known.

**Skin Contact** No specific health hazards known.

**Eye contact** Irritating to eyes.

### d-LIMONENE

### Carcinogenicity

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

**Skin Contact** The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

## SECTION 12: Ecological Information

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

### Ecological information on ingredients.

#### Naphtha (petroleum), hydrodesulfurized heavy

**Ecotoxicity** 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'-(Octadec-9-enylimino)bisethanol

**Ecotoxicity** The product contains a substance which is very toxic to aquatic organisms.

#### Distillates (petroleum), hydrotreated light.

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### PROPAN-2-OL

**Ecotoxicity** The product is not expected to be hazardous to the environment.

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

**Acute toxicity - fish** Not determined.

**Acute toxicity - aquatic invertebrates** Not determined.

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**Acute toxicity - aquatic plants** Not determined.

**Acute toxicity - microorganisms** Not determined.

**Acute toxicity - terrestrial** Not determined.

### Ecological information on ingredients.

#### 2,2'-(Octadec-9-enylimino)bisethanol

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.39 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.1 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 0.01-0.1 mg/l, Algae

##### Chronic aquatic toxicity

**M factor (Chronic)** 1

#### Distillates (petroleum), hydrotreated light.

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 2-5 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1.4 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 1-3 mg/l, Algae

#### Dicocodimethylammonium chloride

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.195 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.01-0.1 mg/l, Daphnia magna

#### PROPAN-2-OL

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: ~ 9640 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, >: > 1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: > 1000 mg/l, Scenedesmus subspicatus

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**Acute toxicity - microorganisms** EC<sub>50</sub>, >: > 1000 mg/l, Activated sludge

### d-LIMONENE

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

#### Chronic aquatic toxicity

**NOEC** 0.01 < NOEC ≤ 0.1

**Degradability** Rapidly degradable

#### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

#### Ecological information on ingredients.

#### Naphtha (petroleum), hydrodesulfurized heavy

**Persistence and degradability** Volatile substances are degraded in the atmosphere within a few days.

#### 2,2'-(Octadec-9-enylimino)bisethanol

**Persistence and degradability** The product is readily biodegradable.

#### Dicocodimethylammonium chloride

**Persistence and degradability** The product is biodegradable.

### PROPAN-2-OL

**Persistence and degradability** The product is expected to be biodegradable.

**Biodegradation** Degradation (%)  
- 95: 21 days

**Biological oxygen demand** ~ 1171 g O<sub>2</sub>/g substance

**Chemical oxygen demand** ~ 2294 g O<sub>2</sub>/g substance

### d-LIMONENE

**Persistence and degradability** Volatile substances are degraded in the atmosphere within a few days.

#### Bioaccumulative potential

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

**Partition coefficient** Not available.

#### Ecological information on ingredients.

## Tango

### Naphtha (petroleum), hydrodesulfurized heavy

**Bioaccumulative Potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

### 2,2'-(Octadec-9-enylimino)bisethanol

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

### Distillates (petroleum), hydrotreated light.

**Bioaccumulative Potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

### Dicocodimethylammonium chloride

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

### PROPAN-2-OL

**Bioaccumulative Potential** The product is not bioaccumulating.

**Partition coefficient** log Pow: 0.05

### d-LIMONENE

**Bioaccumulative Potential** The product contains potentially bioaccumulating substances.

### Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems. The product is non-volatile.

### Ecological information on ingredients.

### Naphtha (petroleum), hydrodesulfurized heavy

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### Distillates (petroleum), hydrotreated light.

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

**Henry's law constant** Not available.

### Dicocodimethylammonium chloride

**Mobility** The product is soluble in water.

### PROPAN-2-OL

**Mobility** The product is soluble in water.

**Adsorption/desorption coefficient** Water - Koc: ~ 1.1 @ °C

**Henry's law constant** 0.00000338 atm m<sup>3</sup>/mol @ 25°C

# Tango

## d-LIMONENE

**Mobility** The product is insoluble in water.

### Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### Distillates (petroleum), hydrotreated light.

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

## PROPAN-2-OL

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

### Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### Waste treatment methods

#### **General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### **Disposal methods**

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

## **SECTION 14: Transport information**

#### **General**

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

#### UN number

**UN No. (ADG)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

#### UN proper shipping name

**Proper shipping name (ADG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY)

## Tango

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY)

### Transport hazard class(es)

**ADG class** 9

**ADG label** 9

**IMDG class** 9

**ICAO class/division** 9

### Transport labels



### Packing group

**ADG packing group** III

**IMDG packing group** III

**ICAO packing group** III

### Environmental hazards

**Environmentally hazardous substance/marine pollutant**



### Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**EmS** F-A, S-F

**Hazchem Code** •3Z

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

## SECTION 15: Regulatory information

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

**Schedule (SUSMP)** No Poison Schedule number allocated

### Inventories

#### **Australia - AICS**

All the ingredients are listed or exempt.

## SECTION 16: Any other relevant information

**General information** This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.



## Tango

<b>Training advice</b>	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Issued by</b>	Prepared by Autosmart International Ltd, Lynn Lane, Shenstone, Lichfield, Staffordshire, WS14 0DH, Great Britain. www.autosmartinternational.com rbutler@autosmart.co.uk Tel +44 (0)1543 481616
<b>Revision date</b>	16/06/2016
<b>Revision</b>	13
<b>Supersedes date</b>	23/02/2016
<b>SDS No.</b>	10050
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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.