



## SAFETY DATA SHEET

### Wheel Cleaner Concentrate

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

##### 1.1. Product identifier

**Product name** Wheel Cleaner Concentrate  
**Product number** 225-5

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

**Identified uses** Car maintenance product. - Wheel Cleaner  
**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 International Ltd  
 Lynn Lane,  
 Shenstone, nr Lichfield  
 Staffordshire. WS14 0DH  
 England  
[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)

**Contact person** Mr. Russell Butler

##### 1.4. Emergency telephone number

**Emergency telephone** Mob: +44 (0) 7808 971321 (24hrs)  
 Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
 Fax: +44 (0) 1543 481549 (09:00 - 17:00)

If you urgently need medical help or advice but it's not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best.

The NHS 111 service will also be available via the harmonised European number for medical advice 116 117

#### SECTION 2: Hazards identification

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

###### Classification

**Physical hazards** Met. Corr. 1 - H290  
**Health hazards** Skin Corr. 1B - H314 Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

## Wheel Cleaner Concentrate

**Classification (67/548/EEC or 1999/45/EC)** C;R35.

**Human health** Corrosive. Prolonged contact causes serious eye and tissue damage.

### 2.2. Label elements

#### Pictogram



**Signal word** Danger

**Hazard statements** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements** P260 Do not breathe vapour/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362+P364 Take off contaminated clothing and wash it before reuse.

**Contains** SODIUM HYDROXIDE, 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts, 2-BUTOXYETHANOL

**Detergent labelling** 5 - < 15% amphoteric surfactants

**Supplementary precautionary statements** P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P390 Absorb spillage to prevent material damage.  
P501 Dispose of contents/container in accordance with national regulations.

### 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

<b>SODIUM HYDROXIDE</b>		<b>5-10%</b>
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-xxxx
Substance with a Community workplace exposure limit.		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Met. Corr. 1 - H290	C;R35	
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		

## Wheel Cleaner Concentrate

<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts</b>	<b>5-10%</b>
CAS number: 0000000-00-0                      EC number: 931-296-8                      REACH registration number: 01-2119488533-30-XXXX	
<b>Classification</b> Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36.
<b>2-BUTOXYETHANOL</b>	<b>2-5%</b>
CAS number: 111-76-2                      EC number: 203-905-0                      REACH registration number: 01-2119475108-36-xxxx  Substance with a Community workplace exposure limit.	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20/21/22 Xi;R36/38
<b>2-(2-BUTOXYETHOXY)ETHANOL</b>	<b>0.5-0.7%</b>
CAS number: 112-34-5                      EC number: 203-961-6                      REACH registration number: 01-2119475104-44-XXXX  Substance with a Community workplace exposure limit.	
<b>Classification</b> Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36

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

<b>General information</b>	CAUTION! First aid personnel must be aware of own risk during rescue!
<b>Inhalation</b>	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. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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

## Wheel Cleaner Concentrate

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Severe irritation of nose and throat. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
<b>Skin contact</b>	Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
<b>Eye contact</b>	May cause blurred vision and serious eye damage. Severe irritation, burning and tearing.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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

**Specific hazards** The product is non-combustible. Irritating gases or vapours. Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Oxides of the following substances: Carbon. Nitrogen. No unusual fire or explosion hazards noted.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**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** Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours. Provide adequate ventilation. For personal protection, see Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! 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 contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

## Wheel Cleaner Concentrate

**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

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Read and follow manufacturer's recommendations. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

#### 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 only in the original container.

**Storage class** Corrosive 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

##### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

##### 2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m<sup>3</sup>

Sk

##### 2-(2-BUTOXYETHOXY)ETHANOL

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

#### SODIUM HYDROXIDE (CAS: 1310-73-2)

**DNEL** Consumer - Inhalation; Short term : 1 mg/m<sup>3</sup>  
Industry - Inhalation; Short term : 1 mg/m<sup>3</sup>  
Industry - Inhalation; Long term : 1 mg/m<sup>3</sup>

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts (CAS: 0000000-00-0)

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

**DNEL** Professional - Dermal; systemic effects: 12.5 mg/kg/day  
Professional - Inhalation; systemic effects: 44 mg/m<sup>3</sup>  
Consumer - Dermal; systemic effects: 7.5 mg/kg/day  
Consumer - Oral; systemic effects: 7.5 mg/kg/day

## Wheel Cleaner Concentrate

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.0135 mg/l</li> <li>- Marine water; 0.00135 mg/l</li> <li>- Sediment (Freshwater); 1 mg/kg</li> <li>- Sediment (Marinewater); 0.1 mg/kg</li> <li>- Soil; 0.8 mg/kg</li> <li>- STP; 3000 mg/l</li> </ul>
-------------	--

### 2-BUTOXYETHANOL (CAS: 111-76-2)

<b>Ingredient comments</b>	Due to the hazardous nature of ingredients, exposure should be minimal.
----------------------------	---

<b>DNEL</b>	Industry - Dermal; Short term : 89 mg/kg/day Industry - Inhalation; Short term : 246 mg/m <sup>3</sup> Industry - Dermal; Long term : 75 mg/kg/day Industry - Inhalation; Long term : 98 mg/m <sup>3</sup> Consumer - Dermal; Short term : 44.5 mg/kg/day Consumer - Inhalation; Short term : 123 mg/m <sup>3</sup> Consumer - Oral; Short term : 13.4 mg/kg/day Consumer - Dermal; Long term : 38 mg/kg/day Consumer - Inhalation; Long term : 49 mg/m <sup>3</sup>
-------------	--

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 8.8 mg/l</li> <li>- Marine water; 0.88 mg/l</li> <li>- Sediment (Freshwater); 8.14 mg/kg</li> <li>- Soil; 2.8 mg/kg</li> <li>- STP; 463 mg/l</li> </ul>
-------------	---

### 2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

<b>DNEL</b>	Industry - Inhalation; : 101.2 mg/m <sup>3</sup> Industry - Dermal; : 20 mg/kg/day Consumer - Inhalation; : mg/m <sup>3</sup> Consumer - Dermal; : 10 mg/kg/day Consumer - Oral; : 1.25 mg/kg/day
-------------	---

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 1 mg/l</li> <li>- Marine water; 0.1 mg/l</li> <li>- Sediment (Freshwater); 4 mg/kg</li> <li>- Sediment (Marinewater); 0.4 mg/kg</li> <li>- Soil; 0.4 mg/kg</li> </ul>
-------------	---

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles and face shield.

## Wheel Cleaner Concentrate

<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). It is recommended that gloves are made of the following material: Neoprene. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact. Wear rubber apron. Wear rubber footwear. Provide eyewash station.
<b>Hygiene measures</b>	Provide eyewash station. 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 contaminated. Promptly remove any clothing that becomes contaminated. Wash contaminated clothing before reuse. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Dark. Brown.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available. Not available.
<b>pH</b>	pH (concentrated solution): ~ 14.0 pH (diluted solution): ~ 12.7 @ 1%
<b>Melting point</b>	~ 0°C
<b>Initial boiling point and range</b>	~ 100 @°C @ 760 mm Hg
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not applicable. : : Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	~ 1.115 @ (20°C)°C
<b>Solubility(ies)</b>	Soluble in water. Miscible with water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	~ 75 mPa s @ 20°C
<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.

## Wheel Cleaner Concentrate

### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 25 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react violently with the product: Acids. Strong oxidising agents.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Reactions with the following materials may generate heat: Strong acids.

#### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 47,413.79

##### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 474.14

##### Skin corrosion/irritation

**Human skin model test** Scientifically unjustified.

##### Extreme pH

= 11.5 Classification based on Conventional Method, and In Vitro Approaches - Corrosive or Irritant by measuring pH and Acid/Alkali Reserve. Corrosive

#### General information

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

#### Inhalation

Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Coughing.

#### Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

#### Skin contact

Causes burns. Prolonged and frequent contact may cause redness and irritation.

#### Eye contact

Causes burns. Severe irritation, burning and tearing.

#### 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.



## Wheel Cleaner Concentrate

### Toxicological information on ingredients.

#### SODIUM HYDROXIDE

**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)** 2,000.0

**Species** Rat

#### 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** Not anticipated to present an aspiration hazard, based on chemical structure.

**Route of entry** Skin absorption Ingestion. Skin and/or eye contact

**Target organs** No specific target organs known.

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

**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)** 7,783.0

**Species** Rat

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,066.0

**Species** Rat

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Reproductive toxicity

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 1,000 mg/kg, Oral, Rat

#### 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

## Wheel Cleaner Concentrate

**STOT - repeated exposure** NOAEL 300 mg/kg, Oral, Rat Not classified as a specific target organ toxicant after repeated exposure.

### 2-BUTOXYETHANOL

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,300.0

**Species** Rat

**ATE oral (mg/kg)** 1,300.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,270.0

**Species** Rat

**ATE dermal (mg/kg)** 1,100.0

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 11.0

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

#### Germ cell mutagenicity

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

#### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility: - NOAEL 720 mg/kg, , Mouse

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 100 mg/kg, , Rat

### SECTION 12: Ecological Information

#### **Ecotoxicity**

The product is not expected to be hazardous to the environment. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. The product is not expected to be hazardous to wastewater 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.

#### Ecological information on ingredients.

### SODIUM HYDROXIDE

#### **Ecotoxicity**

The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

## Wheel Cleaner Concentrate

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

**Ecotoxicity** Harmful to aquatic life.

### 2-BUTOXYETHANOL

**Ecotoxicity** Not regarded as dangerous for the environment.

#### 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.

#### Ecological information on ingredients.

### SODIUM HYDROXIDE

**Acute toxicity - fish** LC50, 48 hours, 48 hours: ~ 189 mg/l, Leuciscus idus (Golden orfe)  
LC50, 96 hours: 125 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC50, 48 hours, 48 hours: > 100 mg/l, Daphnia magna  
EC50, 48 hours: 40-240 mg/l, Daphnia magna

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

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

**Acute toxicity - fish** LC50, 96 hours, 96 hours: ~ 1.11 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC50, 48 hours, 48 hours: 1.9 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC50, 72 hours, 72 hours: 2.4 mg/l, Freshwater algae

**Acute toxicity - microorganisms** EC0, : 3,000 mg/l, Activated sludge

**Chronic toxicity - fish early life stage** NOEC, : 0.135 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, : 0.3 mg/l, Daphnia magna

### 2-BUTOXYETHANOL

**Acute toxicity - fish** LC50, 96 hours, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

## Wheel Cleaner Concentrate

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours, 48 hours: 1550 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , >: > 100 mg/l,
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , >: > 1000 mg/l,
<b>Chronic toxicity - fish early life stage</b>	NOEC, 21 days, 21 days: > 100 mg/l,
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days, 21 days: 100 mg/l, Daphnia magna

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

### Ecological information on ingredients.

#### SODIUM HYDROXIDE

<b>Persistence and degradability</b>	The product contains only inorganic substances which are not biodegradable. The product is potentially degradable.
<b>Stability (hydrolysis)</b>	Not applicable.
<b>Biological oxygen demand</b>	~ 0 g O <sub>2</sub> /g substance

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

<b>Persistence and degradability</b>	The product is biodegradable.
--------------------------------------	-------------------------------

#### 2-BUTOXYETHANOL

<b>Persistence and degradability</b>	The product is biodegradable.
<b>Biodegradation</b>	water - Degradation (%) 90.4: 28 days

### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
<b>Partition coefficient</b>	Not available.

### Ecological information on ingredients.

#### SODIUM HYDROXIDE

<b>Bioaccumulative potential</b>	The product is not bioaccumulating.
----------------------------------	-------------------------------------

## Wheel Cleaner Concentrate

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.  
BCF: 71,

### 2-BUTOXYETHANOL

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

**Partition coefficient** : 0.81

#### 12.4. Mobility in soil

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

#### Ecological information on ingredients.

### SODIUM HYDROXIDE

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

**Henry's law constant** The product contains mainly inorganic substances which are not biodegradable.

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

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

### 2-BUTOXYETHANOL

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

**Adsorption/desorption coefficient** Soil - Koc: ~ 67 @ °C

**Henry's law constant** 0.000016 atm m<sup>3</sup>/mol @ °C

**Surface tension** 65 mN/m @ °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.

#### Ecological information on ingredients.

### SODIUM HYDROXIDE

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

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

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

# Wheel Cleaner Concentrate

## 2-BUTOXYETHANOL

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

### 12.6. Other adverse effects

**Other adverse effects** Not applicable.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** The packaging must be empty (drop-free when inverted).

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible. Discharge of small quantities to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1824

**UN No. (IMDG)** 1824

**UN No. (ICAO)** 1824

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (IMDG)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (ICAO)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (ADN)** SODIUM HYDROXIDE SOLUTION

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**ADR/RID label** 8

**IMDG class** 8

**ICAO class/division** 8

### Transport labels



### 14.4. Packing group

**ADR/RID packing group** II

**IMDG packing group** II

## Wheel Cleaner Concentrate

ICAO packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

IMDG Code segregation group 18. Alkalis

EmS F-A, S-B

Emergency Action Code 2W

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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** Health and Safety at Work etc. Act 1974 (as amended).  
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

**EU legislation** Dangerous Substances 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) (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).

**Guidance** Workplace Exposure Limits EH40.  
Introduction to Local Exhaust Ventilation HS(G)37.  
CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.

**Health and environmental listings** Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

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

## Wheel Cleaner Concentrate

<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>	07/11/2014
<b>Revision</b>	7
<b>Supersedes date</b>	08/10/2013
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R35 Causes severe burns. R36 Irritating to eyes. R36/38 Irritating to eyes and skin.
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H412 Harmful 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.