



**SAFETY DATA SHEET**

**Smartbus Extra (a)**

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 Smartbus Extra (a)  
Product number 227-2

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

Identified uses Traffic Film Remover  
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.

**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  
Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
Fax: +44 (0) 1543 481549 (09:00 - 17:00)  
info@autosmartinternational.com  
  
Contact person Mr. Russell Butler  
Manufacturer

**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. If NHS 111 does not yet cover your area, you can call NHS Direct in England or Wales on 08 45 46 47\* or NHS 24 in Scotland on 0845 24 24 24\* (UK Only) The NHS 111 service will also be available via the harmonised European number for medical advice 116 117\* Calls to 084 numbers are charged at a higher rate than standard calls on BT's most popular call plan (BT Unlimited Weekend). Mobile and other providers costs will vary and you should check the costs of calls with your provider

**SECTION 2: Hazards identification**

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

**Classification**

**Physical hazards**

Met. Corr. 1 - H290

**Health hazards**

Skin Irrit. 2 - H315 Eye Dam. 1 - H318

**Environmental hazards**

Not Classified

**Classification (67/548/EEC or 1999/45/EC)**

Xi; R38, R41.

**2.2. Label elements**

**Smartbus Extra (a)****Pictogram****Signal word**

Danger

**Hazard statements**

H290 May be corrosive to metals.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.

**Precautionary statements**

P264 Wash contaminated skin thoroughly after handling.  
 P280 Wear protective gloves.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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**

C9-C11 Alcohol ethoxylate (6), 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts, SODIUM HYDROXIDE

**Detergent labelling**

5 - < 15% non-ionic surfactants, < 5% NTA (nitrilotriacetic acid) and salts thereof, < 5% amphoteric surfactants

**Supplementary precautionary statements**

P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P390 Absorb spillage to prevent material damage.

**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>C9-C11 Alcohol ethoxylate (6)</b> CAS number: 68439-46-3 EC number: – REACH registration number: Polymer	<b>5-10%</b>
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R41.
<b>Trisodium Nitrilotriacetate</b> CAS number: 5064-31-3 EC number: 225-768-6 REACH registration number: 01-2119519239-36-xxxx	<b>2-5%</b>
<b>Classification</b> Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Carc. 2 - H351	<b>Classification (67/548/EEC or 1999/45/EC)</b> Carc. Cat. 3;R40 Xn;R22 Xi;R36
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts</b> CAS number: 0000000-00-0 EC number: 931-296-8 REACH registration number: 01-2119488533-30-XXXX	<b>2-5%</b>
<b>Classification</b> Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36.

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<b>SODIUM HYDROXIDE</b> <span style="float: right;"><b>1-2%</b></span>	
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> Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> C;R35
<b>2-BUTOXYETHANOL</b> <span style="float: right;"><b>0.7-1.0%</b></span>	
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

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****Inhalation**

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

**Ingestion**

Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Use suitable lotion to moisturise skin. Get medical attention if any discomfort continues.

**Eye contact**

Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

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

**Inhalation**

Coughing, chest tightness, feeling of chest pressure.

**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****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. Use fire-extinguishing media suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture****Specific hazards**

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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

Use air-supplied respirator, gloves and protective goggles. Use protective equipment appropriate for surrounding materials.

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## SECTION 6: Accidental release measures

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

#### Personal precautions

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. 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

#### Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

#### Usage precautions

Avoid spilling. Avoid contact with skin and eyes. 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. Keep above the chemical's freezing point to avoid rupturing the container.

#### Storage class

Chemical storage.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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## SECTION 8: Exposure Controls/personal protection

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### 8.1. Control parameters

#### Occupational exposure limits

### Smartbus Extra (a)

#### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m3

#### 2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m3

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m3

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

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

##### Ingredient comments

No exposure limits known for ingredient(s).

#### Trisodium Nitrilotriacetate (CAS: 5064-31-3)

##### Ingredient comments

No exposure limits known for ingredient(s).

DNEL	Industry - Inhalation; Short term : 5.25 mg/m3 Industry - Inhalation; Long term : 3.5 mg/m3 Consumer - Inhalation; Short term : 1.75 mg/m3 Consumer - Inhalation; Long term : 0.5 mg/kg/day
PNEC	- Fresh water; 0.93 mg/l - Marine water; 0.093 mg/l - STP; 540 mg/l - Sediment; 3.64 mg/kg - Soil; 0.182 mg/kg

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

DNEL	Consumer - Inhalation; Short term : 1 mg/m3 Industry - Inhalation; Short term : 1 mg/m3 Industry - Inhalation; Long term : 1 mg/m3
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#### 2-BUTOXYETHANOL (CAS: 111-76-2)

##### Ingredient comments

Due to the hazardous nature of ingredients, exposure should be minimal.

DNEL	Industry - Dermal; Short term : 89 mg/kg/day Industry - Inhalation; Short term : 246 mg/m3 Industry - Dermal; Long term : 75 mg/kg/day Industry - Inhalation; Long term : 98 mg/m3 Consumer - Dermal; Short term : 44.5 mg/kg/day Consumer - Inhalation; Short term : 123 mg/m3 Consumer - Oral; Short term : 13.4 mg/kg/day Consumer - Dermal; Long term : 38 mg/kg/day Consumer - Inhalation; Long term : 49 mg/m3
PNEC	- Fresh water; 8.8 mg/l - Marine water; 0.88 mg/l - Sediment (Freshwater); 8.14 mg/kg - Soil; 2.8 mg/kg - STP; 463 mg/l

### 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.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin

### Smartbus Extra (a)

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/manufacture, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

#### Hygiene measures

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.

#### Respiratory protection

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

#### Appearance

Liquid.

#### Colour

Light (or pale). Straw.

#### Odour

Mild.

#### Odour threshold

Not available. Not available.

#### pH

pH (concentrated solution): ~ 13.9 pH (diluted solution): ~ 11.8 @ 1%

#### Melting point

~ 0°C

#### Initial boiling point and range

~ 100 @°C @ 760 mm Hg

#### Flash point

Not applicable.

#### Evaporation rate

Not available.

#### Upper/lower flammability or explosive limits

Not applicable. : :

#### Vapour pressure

Not applicable.

#### Vapour density

Not applicable.

#### Relative density

~ 1.070 @ (20°C)°C

#### Solubility(ies)

Soluble in water. Miscible with water.

#### Partition coefficient

Not available.

#### Auto-ignition temperature

Not applicable.

#### Decomposition Temperature

Not available.

#### Viscosity

~ 1 cSt @ °C

#### Oxidising properties

Not applicable.

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### Comments

Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

### 9.2. Other information

#### **Volatile organic compound**

This product contains a maximum VOC content of 13 g/litre.

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## **SECTION 10: Stability and reactivity**

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### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### **Stability**

Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Will not polymerise.

### 10.4. 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

No specific hazardous decomposition products noted.

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## **SECTION 11: Toxicological information**

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### 11.1. Information on toxicological effects

#### Acute toxicity - oral

##### **ATE oral (mg/kg)**

4,921.25984252

#### 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. Irritating.

#### **General information**

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

#### **Inhalation**

May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Irritating to skin. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

Risk of serious damage to eyes.

#### **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.

**Smartbus Extra (a)**  
**C9-C11 Alcohol ethoxylate (6)**

**Other health effects**

There is no evidence that the product can cause cancer.

**Trisodium Nitrilotriacetate**

**Toxicological effects**

Nitrilotriacetic acid, trisodium salt (NTA) has caused kidney tumours in rats and mice when administered orally in high concentrations. The tumours are based on organ damage that can only occur when extremely high threshold limit concentrations, as compared with possible human exposure, are exceeded. In view of the potential degree of exposure, there should be no cancer risk to humans.

**Other health effects**

Possible cancer hazard (contains material which) may cause cancer based on animal data.

**Carcinogenicity**

Limited evidence of a carcinogenic effect.

**SODIUM HYDROXIDE**

**Other health effects**

There is no evidence that the product can cause cancer.

**Acute toxicity - oral**

**Acute toxicity oral (LD50 mg/kg)**

2,000

**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**

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

**Skin contact**

Not a skin sensitiser.

**Route of entry**

Skin absorption Ingestion. Skin and/or eye contact

**Target organs**

No specific target organs known.



**Smartbus Extra (a)**  
**2-BUTOXYETHANOL**

**Other health effects**

ACGIH Carcinogen List. Possible cancer hazard (contains material which) may cause cancer based on animal data. Carcinogen Category 3.

**Acute toxicity - oral**

**Acute toxicity oral (LD50 mg/kg)**

1,300.0

**Species**

Rat

**ATE oral (mg/kg)**

1,300.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD50 mg/kg)**

2270.0

**Species**

Rat

**ATE dermal (mg/kg)**

1100

**Acute toxicity - inhalation**

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

11.0

**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 is not expected to be hazardous to wastewater treatment processes. 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 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.

**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.

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### Acute toxicity - microorganisms

Not determined.

### Acute toxicity - terrestrial

Not determined.

### Ecological information on ingredients.

#### C9-C11 Alcohol ethoxylate (6)

##### Acute toxicity - fish

LC , 96 hours: 10 mg/l, Fish

##### Acute toxicity - aquatic invertebrates

EC , 48 hours: 10 mg/l, Daphnia magna

##### Acute toxicity - aquatic plants

IC , 72 hours: 10 mg/l, Algae

#### Trisodium Nitrotriacetate

##### Acute toxicity - fish

LC , 96 hours: 114-470 mg/l, Fish

##### Acute toxicity - aquatic invertebrates

EC , 48 hours: 560-1,000 mg/l, Daphnia magna

##### Acute toxicity - aquatic plants

IC , 72 hours: 180-320 mg/l, Algae

#### SODIUM HYDROXIDE

##### Acute toxicity - fish

LC50, 48 hours: ~ 189 mg/l, Leuciscus idus (Golden orfe) LC , 96 hours: 125 mg/l, Fish

##### Acute toxicity - aquatic invertebrates

EC , 48 hours: > 100 mg/l, Daphnia magna EC , 48 hours: 40-240 mg/l, Daphnia magna

##### Acute toxicity - aquatic plants

Not known.

#### 2-BUTOXYETHANOL

##### Acute toxicity - fish

LC50, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

##### Acute toxicity - aquatic invertebrates

EC , 48 hours: 1550 mg/l, Daphnia magna

##### Acute toxicity - aquatic plants

EC , >: > 100 mg/l,

##### Acute toxicity - microorganisms

EC , >: > 1000 mg/l,

##### Chronic toxicity - fish early life stage

NOEC, 21 days: > 100 mg/l,

##### Chronic toxicity - aquatic invertebrates

NOEC, 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.

### Smartbus Extra (a)

#### Ecological information on ingredients.

##### C9-C11 Alcohol ethoxylate (6)

###### **Persistence and 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.

##### Trisodium Nitilotriacetate

###### **Persistence and degradability**

The product is biodegradable.

##### SODIUM HYDROXIDE

###### **Persistence and degradability**

The product is biodegradable.

###### **Stability (hydrolysis)**

Not applicable.

###### **Biological oxygen demand**

~ 0 g O2/g substance

##### 2-BUTOXYETHANOL

###### **Persistence and degradability**

The product is biodegradable.

###### **Biodegradation**

water - Degradation (%) 90.4: 28 days

#### 12.3. Bioaccumulative potential

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

##### **Partition coefficient**

Not available.

#### Ecological information on ingredients.

##### C9-C11 Alcohol ethoxylate (6)

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

##### Trisodium Nitilotriacetate

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

##### SODIUM HYDROXIDE

The product is not bioaccumulating.

##### 2-BUTOXYETHANOL

The product is not bioaccumulating.

##### **Partition coefficient**

: 0.81

#### 12.4. Mobility in soil

##### **Mobility**

The product is soluble in water.

### Smartbus Extra (a)

#### Ecological information on ingredients.

##### C9-C11 Alcohol ethoxylate (6)

**Mobility**

The product is soluble in water.

##### Trisodium Nitritotriacetate

**Mobility**

The product is soluble in water.

##### SODIUM HYDROXIDE

**Mobility**

The product is soluble in water.

**Henry's law constant**

The product contains mainly inorganic substances which are not biodegradable.

##### 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

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

#### Ecological information on ingredients.

##### C9-C11 Alcohol ethoxylate (6)

This substance is not classified as PBT or vPvB according to current EU criteria.

##### Trisodium Nitritotriacetate

This substance is not classified as PBT or vPvB according to current EU criteria.

##### SODIUM HYDROXIDE

This substance is not classified as PBT or vPvB according to current EU criteria.

##### 2-BUTOXYETHANOL

This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

Not applicable.

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### **SECTION 13: Disposal considerations**

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#### 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. 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. Packaging: Reuse or recycle products wherever possible.

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### **SECTION 14: Transport information**

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#### 14.1. UN number

UN No. (ADR/RID)	1824
UN No. (IMDG)	1824
UN No. (ICAO)	1824

**Smartbus Extra (a)****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 subsidiary risk	
ADR/RID label	8
IMDG class	8
IMDG subsidiary risk	
ICAO class/division	8
ICAO subsidiary risk	
Transport labels	

**14.4. Packing group**

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

**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**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

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 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. Safety Data Sheets for Substances and Preparations.

**Health and environmental listings**

## Smartbus Extra (a)

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 2

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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## SECTION 16: Other information

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### 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.

### Revision comments

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 butler@autosmart.co.uk Tel +44 (0)1543 481616
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<b>Risk phrases in full</b>	

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R35 Causes severe burns.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R40 Limited evidence of a carcinogenic effect.  
R41 Risk of serious damage to eyes.

### Hazard statements in full

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.  
H351 Suspected of causing cancer if swallowed.  
H412 Harmful to aquatic life with long lasting effects.

### Disclaimer

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