



**SAFETY DATA SHEET**  
**Smart Wheels**

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

**1.1. Product identifier**

Product Name Smart Wheels  
Product No. 216-1

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

Identified uses Wheel Cleaner  
Uses Advised Against None

**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

**1.4. Emergency telephone number**

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

**SECTION 2: HAZARDS IDENTIFICATION**

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

Classification (1999/45/EEC) C;R34.

**2.2. Label elements**

Contains: SODIUM HYDROXIDE  
Detergent Labelling: < 5% Amphoteric surfactants  
Labelling



Corrosive

Risk Phrases R34 Causes burns.  
Safety Phrases S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S35 This material and its container must be disposed of in a safe way.

**2.3. Other hazards**

This product does not contain any PBT or vPvB Substances.

## Smart Wheels

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2. Mixtures**

SODIUM HYDROXIDE	1-5%
CAS-No.: 1310-73-2	EC No.: 215-185-5
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35
ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE	1-5%
CAS-No.: 61789-40-0	EC No.: 263-058-8
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.
2-BUTOXYETHANOL	1-5%
CAS-No.: 111-76-2	EC No.: 203-905-0
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xn;R20/21/22 Xi;R36/38
2-(2-BUTOXYETHOXY)ETHANOL	< 1%
CAS-No.: 112-34-5	EC No.: 203-961-6
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36

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

## SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

## General Information

CAUTION! First aid personnel must be aware of own risk during rescue!

## Inhalation.

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

## Ingestion

Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

## Skin Contact

Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention if any discomfort continues.

## Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes.

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

## General Information

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

## Inhalation.

Coughing, chest tightness, feeling of chest pressure.

## Ingestion

May cause chemical burns in mouth and throat. May cause discomfort if swallowed. May cause stomach pain or vomiting.

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### Skin Contact

Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.

### Eye Contact

May cause blurred vision and serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.

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

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

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### Extinguishing Media

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

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

#### Hazardous Combustion Products

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

#### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

#### Specific Hazards

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

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

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

#### Protective Measures In Fire

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For personal protection, see section 8.

### **6.2. Environmental precautions**

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

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

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

### **6.4. Reference to other sections**

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

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Read and follow manufacturer's recommendations. Eye wash facilities and emergency shower must be available when handling this product. Observe good chemical hygiene practices.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

#### Storage Class

Corrosive storage.

### **7.3. Specific end use(s)**

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

## Smart Wheels

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-(2-BUTOXYETHOXY)ETHANOL	WEL	10 ppm	67,5 mg/m <sup>3</sup>	15 ppm	101,2 mg/m <sup>3</sup>	
2-BUTOXYETHANOL	WEL	25 ppm		50 ppm		Sk
SODIUM HYDROXIDE	WEL				2 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

## 8.2. Exposure controls

### Protective Equipment



### Process Conditions

Provide eyewash station.

### Engineering Measures

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

### Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

### Hand Protection

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

### Eye Protection

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

### Other Protection

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

### Hygiene Measures

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

### Skin Protection

Wear apron or protective clothing in case of splashes.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Viscous liquid
Colour	Brown
Odour	Mild
Solubility	Soluble in water. Miscible with water
Initial Boiling Point and Boiling Range:	~ 100 760 mm Hg
Melting Point (°C)	~ 0
Relative Density	~ 1.080 @ 20 °c
Vapour Density (Air=1)	Not applicable.
Vapour Pressure	Not applicable.
Evaporation Rate	Not available.
pH-Value, Conc. Solution	~ 13.8
pH-Value, Diluted Solution	12.4 @ 1%
Viscosity	~ 1 cSt @ 20 °c
Decomposition Temperature (°C)	Not available.
Odour Threshold, Lower	Not available.

## Smart Wheels

Odour Threshold, Upper

Not available.

Flash Point (°C)

Not applicable.

Auto Ignition Temperature (°C)

Not applicable.

Flammability Limit - Lower(%)

Not applicable.

Flammability Limit - Upper(%)

Not applicable.

Partition Coefficient  
(N-Octanol/Water) < 0

Oxidising Properties

Does not meet the criteria for oxidising.

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

### **9.2. Other information**

Volatile Organic Compound (VOC) 24 g/litre

## SECTION 10: STABILITY AND REACTIVITY

### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions.

### **10.3. Possibility of hazardous reactions**

Hazardous Polymerisation

Will not polymerise.

### **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time. The solution is strongly alkaline and reacts with strong acids with heat generation.

### **10.5. Incompatible materials**

Materials To Avoid

Strong oxidising substances. Strong acids.

### **10.6. Hazardous decomposition products**

No specific hazardous decomposition products noted.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **11.1. Information on toxicological effects**

Skin Corrosion/Irritation - Animal Data

Scientifically unjustified.

Skin Corrosion/Irritation - Human Skin Model Test

Scientifically unjustified.

Skin Corrosion/Irritation - Extreme ≥ 11.5

pH

Corrosive

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

General Information

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

Inhalation

May cause irritation to the respiratory system.

Ingestion.

Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.

Skin Contact

Corrosive. Prolonged contact causes serious tissue damage.

Eye Contact

Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Route of entry

Ingestion. Skin and/or eye contact.

## Smart Wheels

### Medical Symptoms

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

<b>Name</b>	<b>2-BUTOXYETHANOL</b>
Toxic Dose 1 - LD 50	1480 mg/kg (oral rat)
Toxic Dose 2 - LD 50	220 mg/kg (ipr-rat)
Toxic Conc. - LC 50	450 ppm/4h (inh-rat)

Other Health Effects  
ACGIH Carcinogen List.

<b>Name</b>	<b>SODIUM HYDROXIDE</b>
Toxic Dose 1 - LD 50	40 mg/kg (oral-mouse)

Other Health Effects  
This substance has no evidence of carcinogenic properties.

<b>Name</b>	<b>2-(2-BUTOXYETHOXY)ETHANOL</b>
Toxic Dose 1 - LD 50	5660 mg/kg (oral rat)

<b>Name</b>	<b>ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE</b>
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Other Health Effects  
This substance has no evidence of carcinogenic properties.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product is not expected to be hazardous to waste water treatment processes. The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days. The product does not contain organically bound halogen.

### 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.

### 12.2. Persistence and degradability

Degradability:

The surfactant(s) contained in this preparation 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.

### 12.3. Bioaccumulative potential

Bioaccumulative Potential:

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

Partition Coefficient < 0

### 12.4. Mobility in soil

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is miscible with water. May spread in water systems.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

### 12.6. Other adverse effects

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**Name** 2-BUTOXYETHANOL

LC 50, 96 Hrs, Fish mg/l 1395-1575

EC 50, 48 Hrs, Daphnia, mg/l 1815

IC 50, 72 Hrs, Algae, mg/l &gt;500

**Mobility**

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

**Bioaccumulative Potential**

The product is not bioaccumulating.

**Degradability**

The product is biodegradable.

**Name** SODIUM HYDROXIDE

LC 50, 96 Hrs, Fish mg/l 125

**Mobility**

The product is soluble in water.

**Bioaccumulative Potential**

The product is not bioaccumulating.

**Degradability**

The product is biodegradable.

**Name** 2-(2-BUTOXYETHOXY)ETHANOL

**Bioaccumulative Potential**

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

**Degradability**

The product is biodegradable.

**Name** ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE

LC 50, 96 Hrs, Fish mg/l 9.6

EC 50, 48 Hrs, Daphnia, mg/l 21.5

IC 50, 72 Hrs, Algae, mg/l 30

**Mobility**

The product is soluble in water.

**Bioaccumulative Potential**

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

**Degradability**

The product is biodegradable.

### SECTION 13: DISPOSAL CONSIDERATIONS

**General Information**

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

**13.1. Waste treatment methods**

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

### SECTION 14: TRANSPORT INFORMATION

**14.1. UN number**

UN No. (ADR/RID/ADN) 1824

UN No. (IMDG) 1824

UN No. (ICAO) 1824

**14.2 UN Proper shipping name**

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

**14.3 Transport hazard class(es)**

ADR/RID/ADN Class 8

ADR/RID/ADN Class Class 8: Corrosive substances.

ADR Label No. 8

IMDG Class 8

ICAO Class/Division 8

Transport Labels

## Smart Wheels

**14.4. Packing group**

ADR/RID/ADN Packing group	II
IMDG Packing group	II
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	2R
Hazard No. (ADR)	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**

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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.

Water Hazard Classification

WGK 1

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

General Information

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

Only trained personnel should use this material.

Revision Comments

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

Revision Date	12/04/2011
Revision	3
Supersedes Date	29/03/2011

## Smart Wheels

### Risk Phrases In Full

R35	Causes severe burns.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.

### Hazard Statements In Full

H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.