SAFETY DATA SHEET
Floorsmart Cleanse

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

1.1. Product identifier
Product name
Floorsmart Cleanse
Product number
745-10

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Detergent.
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
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
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
Health hazards
Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards
Not Classified
Floorsmart Cleanse

Classification (67/548/EEC or 1999/45/EC) C;R34.

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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains SODIUM HYDROXIDE

Detergent labelling < 5% amphoteric surfactants, < 5% cationic surfactants, < 5% non-ionic surfactants, < 5% perfumes

Supplementary precautionary statements P264 Wash contaminated skin thoroughly after handling.
P363 Wash contaminated clothing before reuse.
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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS number: 1310-73-2</th>
<th>EC number: 215-185-5</th>
<th>REACH registration number: 01-2119457892-27-xxxx</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>2-5%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substance with a Community workplace exposure limit.

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

Classification (67/548/EEC or 1999/45/EC) C;R35
Floorsmart Cleanse

POTASSIUM HYDROXIDE
CAS number: 1310-58-3
EC number: 215-181-3
REACH registration number: 01-2119487136-33-XXXX

0.2-0.5%

Classification
Acute Tox. 4 - H302
Skin Corr. 1A - H314
Eye Dam. 1 - H318

Classification (67/548/EEC or 1999/45/EC)
C;R35 Xn;R22

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

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

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

Ingestion
Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

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

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

5.2. Special hazards arising from the substance or mixture

Specific hazards
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.
Floorsmart Cleanse

5.3. Advice for firefighters

Protective actions during firefighting
No specific firefighting precautions known.

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

SECTION 6: Accidental release measures

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. Wash thoroughly after dealing with a spillage. Absorb in vermiculite, dry sand or earth and place into containers. 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.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Eye wash facilities and emergency shower must be available when handling this product.

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 above the chemical's freezing point to avoid rupturing the container. Store in closed original container at temperatures between 5°C and 30°C.

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/m³

POTASSIUM HYDROXIDE
Long-term exposure limit (8-hour TWA): WEL
Short-term exposure limit (15-minute): WEL 2 mg/m³
Floorsmart Cleanse

WEL = Workplace Exposure Limit

**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 |

### 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**

Wear protective gloves made of the following material: Rubber (natural, latex). Use thin cotton gloves inside the rubber gloves if allergy risk. Polyvinyl chloride (PVC). 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.

**Other skin and body protection**

Provide eyewash station.

**Hygiene measures**

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes 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.

**Respiratory protection**

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### SECTION 9: Physical and Chemical Properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Coloured liquid.</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Brown.</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Mild.</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not available. Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>pH (concentrated solution): ~ 13.4 pH (diluted solution): ~ 12.4 @1%</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>~ 0°C</td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
<td>~ 100°C @ 760 mm Hg</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not applicable. : : Not applicable.</td>
</tr>
</tbody>
</table>
Floorsmart Cleanse

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>~ 1.080 @ (20°C)°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>: &lt; 0</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>~ 1 cSt @ 20°C</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Does not meet the criteria for classification as oxidising.</td>
</tr>
<tr>
<td>Comments</td>
<td>Information declared as &quot;Not available&quot; or &quot;Not applicable&quot; is not considered to be relevant to the implementation of the proper control measures.</td>
</tr>
</tbody>
</table>

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid freezing.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products No specific hazardous decomposition products noted.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Skin corrosion/irritation Scientifically unjustified.

Human skin model test The classification is based on the criteria for extreme pH values, under Regulation (EC) 1272/2008, Annex I, section 3.2.3.1.2. Classification based on Conventional Method, and In Vitro Approaches - Corrosive or Irritant by measuring pH and Acid/Alkali Reserve. ≥ 11.5 Corrosive.
Floorsmart Cleanse

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

Causes burns.

Skin contact

Causes burns.

Eye contact

Causes burns.

Acute and chronic health hazards

This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

Route of entry

Ingestion. Skin and/or eye contact

Target organs

No specific target organs known.

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 (LD₅₀ 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.

POTASSIUM HYDROXIDE

Other health effects

There is no evidence that the product can cause cancer.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 273.0

Species Rat

Skin sensitisation
Floorsmart Cleanse

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

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.

SECTION 12: Ecological Information

Ecotoxicity  
The product contains a substance which is harmful to aquatic organisms. 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.

POTASSIUM HYDROXIDE

Ecotoxicity  
The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on 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) 
LC₉₅, 96 hours: 125 mg/l, Fish

Acute toxicity - aquatic invertebrates  
EC₅₀, 48 hours, 48 hours: > 100 mg/l, Daphnia magna 
EC₉₅, 48 hours: 40-240 mg/l, Daphnia magna

Acute toxicity - aquatic plants  
Not known.

POTASSIUM HYDROXIDE

Acute toxicity - fish  
LC₅₀, 96 hours, 96 hours: 80 mg/l, Freshwater fish

12.2. Persistence and degradability
Floorsmart Cleanse

**Persistence and degradability**
The surfactant(s) contained in this product 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**

- **Persistence and degradability**
  The product contains only inorganic substances which are not biodegradable. The product is potentially degradable.
- **Stability (hydrolysis)**
  Not applicable.
- **Biological oxygen demand**
  $\sim 0 \text{ g O}_2/\text{g substance}$

**POTASSIUM HYDROXIDE**

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

**12.3. Bioaccumulative potential**

- **Bioaccumulative potential**
  The product does not contain any substances expected to be bioaccumulating.
- **Partition coefficient**
  $< 0$

**Ecological information on ingredients.**

**SODIUM HYDROXIDE**

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

**POTASSIUM HYDROXIDE**

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

**12.4. Mobility in soil**

- **Mobility**
  The product is non-volatile. 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.

**POTASSIUM HYDROXIDE**

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

**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.
Floorsmart Cleanse

SODIUM HYDROXIDE

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

POTASSIUM HYDROXIDE

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
None known.

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. 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.

SECTION 14: Transport information

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

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

14.3. Transport hazard class(es)
ADR/RID class 8
ADR/RID label 8
IMDG class 8
ICAO class/division 8
Floorsmart Cleanse

Transport labels

14.4. Packing group

ADR/RID 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             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

EU legislation
Dangerous Preparations Directive 1999/45/EC.

Guidance
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.

Water hazard classification
WGK 2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information
Floorsmart Cleanse

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.

Issued by
Prepared by Autosmart International Ltd, Lynn Lane, Shenstone, Lichfield, Staffordshire, WS14 0DH, Great Britain.
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Revision date
24/03/2015
Revision
13
Supersedes date
20/03/2015
SDS number
10590
SDS status
Approved.
Risk phrases in full
R22 Harmful if swallowed.
R35 Causes severe burns.

Hazard statements in full
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

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.