



SAFETY DATA SHEET
G101

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

1.1. Product identifier

Product name G101
Product No. 237-1

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

Identified uses Cleaning agent.
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

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) Xi;R38, R41.

2.2. Label elements

Detergent Labelling: < 5% non-ionic surfactants
phosphates
amphoteric surfactants
perfumes
Contains d-LIMONENE

Labelling



Irritant

Risk Phrases

R38 Irritating to skin.
R41 Risk of serious damage to eyes.

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.
S37/39 Wear suitable gloves and eye/face protection.

2.3. Other hazards

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This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

C9-C11 Alcohol ethoxylate (6)	2-5%
CAS-No.: 68439-46-3	EC No.:
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.
Tetrapotassium Pyrophosphate	2-5%
CAS-No.: 7320-34-5	EC No.: 230-785-7
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.
SODIUM HYDROXIDE	1-2%
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	1-2%
CAS-No.: 61789-40-0	EC No.: 263-058-8
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) 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

Inhalation

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

Ingestion

Remove victim immediately from source of exposure. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!
Immediately rinse mouth and drink plenty of water. If person becomes uncomfortable or if ingested in large amounts (100-150 ml for an adult person): Take to hospital along with these instructions. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if any discomfort continues. Consult a physician for specific advice.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Rinse the skin immediately with lots of water. Use suitable lotion to moisturise skin. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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.

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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

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 equipment for fire-fighters

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. Observe good chemical hygiene practices. Follow instructions and ensure correct dilution of this product before use.

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. Keep above the chemical's freezing point to avoid rupturing the container.

Storage Class

Chemical 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

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8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SODIUM HYDROXIDE	WEL				2 mg/m ³	

WEL = Workplace Exposure Limit.

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. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Hand protection

Use protective gloves made of: Rubber (natural, latex). Polyvinyl chloride (PVC). Nitrile. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

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

Other 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 wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Fluorescent. Green.
Odour	Lemon.
Solubility	Soluble in water. Miscible with water
Initial boiling point and boiling range	~100°C @ 760 mm Hg
Melting point (°C)	~ 0
Relative density	~1.050 (20°C)
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not available.
pH-Value, Conc. Solution	~ 13.6
pH-Value, Diluted Solution	~ 10.2 @ 1%
Viscosity	~ 1 cSt
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.

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Flash point

Not applicable.

Auto Ignition Temperature (°C)

Not applicable.

Flammability Limit - Lower(%)

Not applicable.

Flammability Limit - Upper(%)

Not applicable.

Partition Coefficient
(N-Octanol/Water)

Not available.

Oxidising properties

Not applicable.

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) 0 g/litre

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Reacts strongly with concentrated acids and chloro-hydrocarbons. Strong oxidising substances.

10.2. Chemical stability

No particular stability concerns. Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not applicable.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

No specific conditions are likely to result in a hazardous situation. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong oxidising substances.

10.6. Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxicological information

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

Other Health Effects

This substance has no evidence of carcinogenic properties. IARC Not Listed. OSHA Not Regulated. NTP Not Listed.

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 volumes may have adverse impact on human health.

Inhalation

May cause irritation to the respiratory system.

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Ingestion

May cause discomfort if swallowed.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes. Risk of serious damage to eyes.

Health Warnings

Serious long-term effects are not known to be related to this type of product.

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.**SODIUM HYDROXIDE (CAS: 1310-73-2)**

Toxic Dose 1 - LD 50

40 mg/kg (oral-mouse)

Toxic Dose 2 - LD 50

325 mg/kg (oral rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE (CAS: 61789-40-0)

Toxic Dose 1 - LD 50

5,000 mg/kg (oral rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

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

Toxic Dose 1 - LD 50

2000 mg/kg (oral rat)

Toxic Conc. - LC 50

5 mg/l/4h (inh-rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

Tetrapotassium Pyrophosphate (CAS: 7320-34-5)

Toxic Dose 1 - LD 50

2000 mg/kg (oral rat)

Other Health Effects

This substance has no evidence of carcinogenic properties. IARC Not Listed. NTP Not Listed. ACGIH Carcinogen List.

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.

Ecological information on ingredients.**SODIUM HYDROXIDE (CAS: 1310-73-2)**

Ecotoxicity

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.1. Toxicity

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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 (CAS: 1310-73-2)**

LC 50, 96 Hrs, Fish mg/l

125

EC 50, 48 Hrs, Daphnia, mg/l

40-240

ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE (CAS: 61789-40-0)

LC 50, 96 Hrs, Fish mg/l

9.6

Acute Toxicity - Fish

LC50 72 hours ~ 9.6 mg/l Leuciscus idus (Golden orfe)

EC 50, 48 Hrs, Daphnia, mg/l

21.5

IC 50, 72 Hrs, Algae, mg/l

30

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

LC 50, 96 Hrs, Fish mg/l

10

EC 50, 48 Hrs, Daphnia, mg/l

10

IC 50, 72 Hrs, Algae, mg/l

10

12.2. Persistence and degradability

Degradability

The product is biodegradable. 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.

Ecological information on ingredients.**SODIUM HYDROXIDE (CAS: 1310-73-2)**

Degradability

The product is biodegradable.

ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE (CAS: 61789-40-0)

Degradability

The product is biodegradable.

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

Degradability

The product is biodegradable.

Tetrapotassium Pyrophosphate (CAS: 7320-34-5)

Degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

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

Partition coefficient

Not available.

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Ecological information on ingredients.**SODIUM HYDROXIDE (CAS: 1310-73-2)**

Bioaccumulative potential

The product is not bioaccumulating.

ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE (CAS: 61789-40-0)

Bioaccumulative potential

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

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

Bioaccumulative potential

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

Tetrapotassium Pyrophosphate (CAS: 7320-34-5)

Bioaccumulative potential

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

12.4. Mobility in soil

Mobility:

The product is soluble in water.

Ecological information on ingredients.**SODIUM HYDROXIDE (CAS: 1310-73-2)**

Mobility:

The product is soluble in water.

ALKYL AMIDO PROPYL DIMETHYLAMINE BETAINE (CAS: 61789-40-0)

Mobility:

The product is soluble in water.

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

Mobility:

The product is soluble in water.

Tetrapotassium Pyrophosphate (CAS: 7320-34-5)

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.**C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

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. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction. Packaging: Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

UN No. (ADR/RID/ADN) 1719

UN No. (IMDG) 1719

UN No. (ICAO) 1719

14.2. UN proper shipping name

Proper Shipping Name CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide)

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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	

**14.4. Packing group**

ADR/RID/ADN 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	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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

Control of Substances Hazardous to Health.

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. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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.

Health and Environmental Listings

Regulation EC 689/2008 concerning the export and import of dangerous chemicals.

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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.

Revision Comments

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

Revision Date 10/05/2012

Revision 6

Supersedes date 12/05/2011

Risk Phrases In Full

R35 Causes severe burns.
 R22 Harmful if swallowed.
 R36 Irritating to eyes.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.

Hazard Statements In Full

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

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.