SAFETY DATA SHEET

Citrus Pre Wash

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

1.1. Product identifier

Trade name: Citrus Pre Wash

Product no.: B0471

Unique formula identifier (UFI): 9Q1E-80NP-J00G-VS0S

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

Relevant identified uses of the substance or mixture: Cleaning product
Restricted to professional users.

Use descriptors (UK REACH):

Sectors of use:	Description:
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category:	**Description:**
PC 35	Washing and Cleaning Products (including solvent based products)

EuPCS: PC-CLN-17.1 / Exterior cleaning products - all vehicle types

▼*Uses advised against :* None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Autosmart International Limited
Lynn Lane,
Shenstone,
Lichfield
WS14 0DH Staffordshire.
United Kingdom
+44 (0) 1543 481 616
EU: Hållnäsgatan 14, 752 28 Uppsala, Sweden. +46 (0) 18-8439320 (09:00 - 17:00)

Contact person: Russell Butler

E-mail: SHREQ@autosmart.co.uk

Revision: 18/07/2024

SDS Version: 2.0

Date of previous version: 17/07/2024 (1.0)

1.4. Emergency telephone number

NCEC - For Chemical Emergency Support ONLY (spill, leak, fire, exposure or accident), Call NCEC at +44 (0) 1865 407333 (24Hrs UK)
when calling please quote "AUTOSMART 29003-NCEC"

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.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1C; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
May be corrosive to metals. (H290)
Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

General: -

Prevention:
Wear eye protection/protective gloves/protective clothing. (P280)
Do not breathe vapour/spray. (P260)

Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
Take off contaminated clothing and wash it before reuse. (P362+P364)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage: -

Disposal:
Dispose of contents/container in accordance with national regulation
(P501)

Hazardous substances: sodium hydroxide;caustic soda

Additional labelling:
EUH208, Contains 2-(4-methylcyclohex-3-en-1-yl)propan-2-ol. May produce an allergic reaction.

UFI: 9Q1E-80NP-J00G-VS0S

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:
< 5%
· Amphoteric surfactants
· Non-ionic surfactants
· Perfumes (TERPINOLENE)
· Perfumes (D-LIMONENE)
· Perfumes (CITRAL)
· Perfumes (LINALYL ACETATE)
· Perfumes (ALPHA-PINENES/PINENE)
· Perfumes (TERPINEOL)

2.3. Other hazards

Additional warnings:
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance:	Identifiers:	% w/w:	Classification:	Note:

1-methoxy-2-propanol;monopropylene glycol methyl ether	CAS No.: 107-98-2 EC No.: 203-539-1 UK-REACH: Index No.: 603-064-00-3	1-3%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	1-3%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
2-(4-methylcyclohex-3-en-1-yl)propan-2-ol	CAS No.: EC No.: 701-188-3 UK-REACH: Index No.:	<1%	Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
p-mentha-1,4(8)-diene	CAS No.: 586-62-9 EC No.: 209-578-0 UK-REACH: Index No.:	<0.05%	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
(R)-p-mentha-1,8-diene;d-limonene	CAS No.: 5989-27-5 EC No.: 227-813-5 UK-REACH: Index No.: 601-096-00-2	<0.05%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
citral	CAS No.: 5392-40-5 EC No.: 226-394-6 UK-REACH: Index No.: 605-019-00-3	<0.05%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	
Linalyl acetate	CAS No.: 115-95-7 EC No.: 204-116-4 UK-REACH: Index No.:	<0.05%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	
Citral	CAS No.: 80-56-8 EC No.: 201-291-9 UK-REACH: Index No.:	<0.05%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Terpineol	CAS No.: 8000-41-7 EC No.: 232-268-1 UK-REACH: Index No.:	<0.05%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact:	Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. IF ON SKIN: Wash with plenty of water/water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
Eye contact:	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.
Burns:	Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.
Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up
Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections
See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:	Keep only in original packaging. Container with a resistant inner liner.
Storage temperature:	5 - 30°C
Incompatible materials:	Strong acids Strong oxidizing agents

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
1-methoxy-2-propanol;monopropylene glycol methyl ether
Long term exposure limit (8 hours) (ppm): 100
Long term exposure limit (8 hours) (mg/m^3): 375
Short term exposure limit (15 minutes) (ppm): 150
Short term exposure limit (15 minutes) (mg/m^3): 560
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

sodium hydroxide;caustic soda
Short term exposure limit (15 minutes) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

(R)-p-mentha-1,8-diene;d-limonene

Duration: :	Route of exposure: :	DNEL: :
Long term – Systemic effects - General population	Dermal	4.8 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	9.5 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	16.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	66.7 mg/m³
Long term – Systemic effects - General population	Oral	4.8 mg/kg bw/day

1-methoxy-2-propanol;monopropylene glycol methyl ether

Duration: :	Route of exposure: :	DNEL: :
Long term – Systemic effects - General population	Dermal	78 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	183 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	43.9 mg/m³
Long term – Systemic effects - Workers	Inhalation	369 mg/m³
Short term – Local effects - Workers	Inhalation	553.5 mg/m³
Short term – Systemic effects - Workers	Inhalation	553.5 mg/m³
Long term – Systemic effects - General population	Oral	33 mg/kg bw/day

citral

Duration: :	Route of exposure: :	DNEL: :
Long term – Local effects - General population	Dermal	140 µg/cm²
Long term – Local effects - Workers	Dermal	140 µg/cm²
Long term – Systemic effects - General population	Dermal	1 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.7 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	2.7 mg/m³
Long term – Systemic effects - Workers	Inhalation	9 mg/m³
Long term – Systemic effects - General population	Oral	600 µg/kgbw/day

Citral

Duration: :	Route of exposure: :	DNEL: :
Long term – Systemic effects - General population	Dermal	225 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	542 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	674 µg/m³
Long term – Systemic effects - Workers	Inhalation	3.8 mg/m³
Long term – Systemic effects - General population	Oral	225 µg/kgbw/day

Linalyl acetate

Duration: :	Route of exposure: :	DNEL: :
Long term – Local effects - General population	Dermal	236.2 µg/cm²
Long term – Local effects - Workers	Dermal	236.2 µg/cm²
Long term – Systemic effects - General population	Dermal	1.25 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2.5 mg/kg bw/day
Short term – Local effects - General population	Dermal	236.2 µg/cm²

Short term – Local effects - Workers	Dermal	236.2 µg/cm²
Long term – Systemic effects - General population	Inhalation	680 µg/m³
Long term – Systemic effects - Workers	Inhalation	2.75 mg/m³
Long term – Systemic effects - General population	Oral	200 µg/kgbw/day

p-mentha-1,4(8)-diene

Duration: :	Route of exposure: :	DNEL: :
Long term – Local effects - Workers	Dermal	44 µg/cm²
Long term – Systemic effects - General population	Dermal	260 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	520 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	900 µg/m³
Long term – Systemic effects - Workers	Inhalation	3.6 mg/m³
Long term – Systemic effects - General population	Oral	260 µg/kgbw/day

sodium hydroxide;caustic soda

Duration: :	Route of exposure: :	DNEL: :
Long term – Local effects - General population	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³

PNEC

(R)-p-mentha-1,8-diene;d-limonene

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		14 µg/L
Freshwater sediment		3.85 mg/kg
Marine water		1.4 µg/L
Marine water sediment		385 µg/kg
Predators		133 mg/kg
Sewage treatment plant		1.8 mg/L
Soil		763 µg/kg

1-methoxy-2-propanol;monopropylene glycol methyl ether

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		10 mg/L
Freshwater sediment		52.3 mg/kg
Intermittent release (freshwater)		100 mg/L
Marine water		1 mg/L
Marine water sediment		5.2 mg/kg
Sewage treatment plant		100 mg/L
Soil		4.59 mg/kg

citral

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		6.78 µg/L
Freshwater sediment		125 µg/kg
Intermittent release (freshwater)		67.8 µg/L
Marine water		678 ng/L
Marine water sediment		12.5 µg/kg
Sewage treatment plant		1.6 mg/L
Soil		20.9 µg/kg

Citral

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		606 ng/L
Freshwater sediment		157 µg/kg
Intermittent release (freshwater)		3.03 µg/L
Intermittent release (marine water)		303 ng/L
Marine water		60.6 ng/L
Marine water sediment		15.7 µg/kg
Predators		8.76 mg/kg
Sewage treatment plant		200 µg/L
Soil		31.7 µg/kg

Linalyl acetate

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		11 µg/L
Freshwater sediment		609 µg/kg
Intermittent release (freshwater)		110 µg/L
Marine water		1.1 µg/L
Marine water sediment		60.9 µg/kg
Sewage treatment plant		1 mg/L
Soil		115 µg/kg

p-mentha-1,4(8)-diene

Route of exposure: :	Duration of Exposure: :	PNEC: :
Freshwater		634-1260 ng/L
Freshwater sediment		145.4-147 µg/kg
Intermittent release (freshwater)		6.34-12.6 µg/L
Intermittent release (marine water)		1.26 µg/L
Marine water		63.4-130 ng/L
Marine water sediment		14.54-14.7 µg/kg
Predators		10.31 mg/kg
Sewage treatment plant		200-10000 µg/L
Soil		16.38-29.1 µg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Type:	Class:	Colour:	Standards:	:
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended:	Type/Category:	Standards:	:
Dedicated work clothing should be worn.	-	-	
Non-slip safety shoes		EN ISO 20344	

Hand protection:

Material:	Glove thickness (mm):	Breakthrough time (min.):	Standards:	:
Nitrile	0,2	> 120	EN374-2, EN374-3, EN388	

Eye protection:

Type:	Standards:	:
Safety glasses with side shields.	EN166	
Safety glasses with side shields.	EN ISO 16321-1	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Yellowish

Odour / Odour threshold: Lemon like

pH: 12.3

pH in solution: 9.9 (1%)

Density (g/cm^3): 1.015 (20 °C)

Kinematic viscosity: Testing not relevant or not possible due to the nature of the product.

Dynamic viscosity: ~1 centistokes (20 °C)

Particle characteristics: Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):	~0
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	100
Vapour pressure:	Testing not relevant or not possible due to the nature of the product.
Relative vapour density:	Testing not relevant or not possible due to the nature of the product.
Decomposition temperature (°C):	Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C):	Not applicable - based on structure
Flammability (°C):	The material is not combustible.
Auto-ignition temperature (°C):	No data available
Lower and upper explosion limit (% v/v):	Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water:	Completely soluble
n-octanol/water coefficient (LogKow):	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L):	Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Sensitivity to shock:	No
VOC (g/l):	21
Oxidizing properties:	Not applicable
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Strong acids
Strong oxidizing agents

10.6. Hazardous decomposition products
Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	4016 mg/kg

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether

Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2000 mg/kg

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	6 mg/L

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

This product contains substances that may trigger an allergic reaction in already sensitized persons.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

(R)-p-mentha-1,8-diene;d-limonene has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	6812 mg/L

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	23300 mg/L

Product/substance	1-methoxy-2-propanol;monopropylene glycol methyl ether
Species:	Algae
Duration:	72 hours
Test:	IC50
Result:	1000 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Fish, Leuciscus idus
Duration:	96 hours
Test:	LC50
Result:	189 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	40-240 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Crustacean, Ceriodaphnia dubia
Duration:	48 hours
Test:	EC50
Result:	40.4 mg/L

12.2. Persistence and degradability
Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential
Based on available data, the classification criteria are not met.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product is covered by the regulations on hazardous waste. (*)
HP 8 – Corrosive
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code
20 01 29* Detergents containing dangerous substances

Specific labelling

Contaminated packing

EWC code: 15 01 10* Packaging containing residues of or contaminated by dangerous substances

SECTION 14: TRANSPORT INFORMATION

:	14.1 UN / ID:	14.2 UN proper shipping name:	14.3 Hazard class(es):	14.4 PG*:	14.5 Env**:	Other information::
ADR	UN1824	SODIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1824	SODIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	III	No	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
IATA	UN1824	SODIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	III	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.
Hazchem Code: 2R

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application: Restricted to professional users.
People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education: No specific requirements.

SEVESO - Categories / dangerous substances: Not applicable.

UK-REACH, Annex XVII

1-methoxy-2-propanol;monopropylene glycol methyl ether is subject to UK-REACH restrictions (entry 40).
(R)-p-mentha-1,8-diene;d-limonene is subject to UK-REACH restrictions (entry 40).
Citral is subject to UK-REACH restrictions (entry 40).

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:	< 5% · Amphoteric surfactants · Non-ionic surfactants · Perfumes (TERPINOLENE) · Perfumes (D-LIMONENE) · Perfumes (CITRAL) · Perfumes (LINALYL ACETATE) · Perfumes (ALPHA-PINENES/PINENE) · Perfumes (TERPINEOL)
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013. Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H290, May be corrosive to metals.
H302, Harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H336, May cause drowsiness or dizziness.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PC 35 = Washing and Cleaning Products (including solvent based products)

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Russell Butler

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en