



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

All Purpose Cleaner (Detailer) D104 [D10401 D10405]

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

##### Identified uses

Automotive.

#### 1.3. Details of the supplier of the safety data sheet

**Address:** Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF  
**Telephone:** +44 (0)870 241 6696  
**E Mail:** info@meguiars.co.uk  
**Website:** www.meguiars.co.uk

#### 1.4. Emergency telephone number

+44 (0)870 241 6696

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

Substance or Mixture Corrosive to Metals, Category 1 - Met. Corr. 1; H290  
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
Skin Corrosion/Irritation, Category 1B - Skin Corr. 1B; H314  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335  
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

#### 2.2. Label elements

## CLP REGULATION (EC) No 1272/2008

### SIGNAL WORD

DANGER.

### Symbols:

GHS05 (Corrosion) | GHS07 (Exclamation mark) |

### Pictograms



### HAZARD STATEMENTS:

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

#### General:

P102 Keep out of reach of children.

#### Prevention:

P234 Keep only in original packaging.  
P260E Do not breathe vapour or spray.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE or doctor/physician.

#### Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### SUPPLEMENTAL INFORMATION:

#### Supplemental Hazard Statements:

EUH208 Contains Oils, orange, sweet. | (R)-p-mentha-1,8-diene. May produce an allergic reaction.

5% of the mixture consists of components of unknown acute inhalation toxicity.  
Contains 2% of components with unknown hazards to the aquatic environment.

#### Notes on labelling

Updated per Regulation (EC) No. 648/2004 on detergents.

Ingredients required per 648/2004: <5%: Non-ionic surfactants, EDTA and salts thereof, cationic surfactant. Contains: Perfumes, d-limonene, linalool.

H314 based on pH. H335 based on test data.

### 2.3. Other hazards

None known.

**SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	EC No.	REACH Registration No.	% by Wt	Classification
Non-Hazardous Ingredients	Mixture			75 - 95	Substance not classified as hazardous
Alcohols, C7-21, ethoxylated	68991-48-0			1 - 5	EUH066; Aquatic Acute 1, H400,M=1; Aquatic Chronic 2, H411
Potassium Silicate	1312-76-1	215-199-1		0.5 - 1.5	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1C, H314; STOT SE 3, H335
Alcohols, C9-11, ethoxylated	68439-46-3			0.5 - 1.5	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318
tetrasodium ethylene diamine tetraacetate	64-02-8	200-573-9	01-2119486762-27	0.5 - 1.5	Acute Tox. 4, H302; Eye Dam. 1, H318 Acute Tox. 4, H332; STOT RE 2, H373
Oils, orange, sweet	8008-57-9			0.05 - 0.5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=1; Aquatic Chronic 2, H411
potassium hydroxide	1310-58-3	215-181-3		< 0.5	Acute Tox. 3, H301; Skin Corr. 1A, H314 Met. Corr. 1, H290
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	01-2119529223-47	< 0.3	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 - Nota C Asp. Tox. 1, H304
C.I. Food Yellow 3	2783-94-0	220-491-7		< 0.1	Substance not classified as hazardous
linalool	78-70-6	201-134-4		< 0.02	Skin Sens. 1B, H317 Skin Irrit. 2, H315; Eye Irrit. 2, H319

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If swallowed**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1 Information on toxicological effects

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

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

**Hazardous Decomposition or By-Products**

Substance

Carbon monoxide  
Carbon dioxide.

Condition

During combustion.  
During combustion.

**5.3. Advice for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully neutralise spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralising agent until reaction stops. Let cool before collecting. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminium, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

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

Store in a well-ventilated place. Keep container tightly closed. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidising agents.

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

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
potassium hydroxide	1310-58-3	UK HSC	STEL:2 mg/m <sup>3</sup>	

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**Recommended monitoring procedures:** Information on recommended monitoring procedures can be obtained from UK HSC

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

*Applicable Norms/Standards*

Use eye/face protection conforming to EN 166

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

<b>Material</b>	<b>Thickness (mm)</b>	<b>Breakthrough Time</b>
Butyl rubber.	No data available	No data available
Polymer laminate	No data available	No data available

*Applicable Norms/Standards*

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber  
Apron - polymer laminate

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:  
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

*Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter types A & P

**SECTION 9: Physical and chemical properties**

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

<b>Appearance</b>	
Physical state	Liquid.
Colour	Transparent Orange
<b>Odor</b>	Sweet Odor
<b>Odour threshold</b>	No data available.
<b>pH</b>	13.5
<b>Boiling point/boiling range</b>	> 100 °C
<b>Melting point</b>	No data available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Explosive properties</b>	Not classified
<b>Oxidising properties</b>	Not classified
<b>Flash point</b>	Flash point > 93 °C (200 °F)
<b>Autoignition temperature</b>	No data available.
<b>Flammable Limits(LEL)</b>	No data available.
<b>Flammable Limits(UEL)</b>	No data available.
<b>Vapour pressure</b>	No data available.

Relative density	1.03 [Ref Std:WATER=1]
Water solubility	Complete
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapour density	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Density	1.03 g/ml

## 9.2. Other information

EU Volatile Organic Compounds *No data available.*

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

Strong oxidising agents.

Strong acids.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

**Skin contact**

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion**

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Alcohols, C7-21, ethoxylated	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Alcohols, C7-21, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
Alcohols, C9-11, ethoxylated	Dermal	Rabbit	LD50 > 2,000 mg/kg
Alcohols, C9-11, ethoxylated	Ingestion	Rat	LD50 1,378 mg/kg
tetrasodium ethylene diamine tetraacetate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
tetrasodium ethylene diamine tetraacetate	Ingestion	Rat	LD50 1,658 mg/kg
Potassium Silicate	Dermal	Rabbit	LD50 > 4,640 mg/kg
Potassium Silicate	Ingestion	Rat	LD50 500 mg/kg
Oils, orange, sweet	Inhalation-Vapour (4 hours)	Mouse	LC50 > 3.14 mg/l
Oils, orange, sweet	Dermal	Rabbit	LD50 > 5,000 mg/kg
Oils, orange, sweet	Ingestion	Rat	LD50 4,400 mg/kg
(R)-p-mentha-1,8-diene	Inhalation-Vapour (4 hours)	Mouse	LC50 > 3.14 mg/l
(R)-p-mentha-1,8-diene	Dermal	Rabbit	LD50 > 5,000 mg/kg
(R)-p-mentha-1,8-diene	Ingestion	Rat	LD50 4,400 mg/kg
potassium hydroxide	Dermal	Rabbit	LD50 > 1,260 mg/kg
potassium hydroxide	Ingestion	Rat	LD50 273 mg/kg
linalool	Dermal	Rabbit	LD50 5,610 mg/kg
linalool	Ingestion	Rat	LD50 2,790 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value



Overall product	In vitro data	Corrosive
Alcohols, C7-21, ethoxylated	Not available	No significant irritation
Alcohols, C9-11, ethoxylated	Rabbit	Irritant
tetrasodium ethylene diamine tetraacetate	Rabbit	No significant irritation
Potassium Silicate	Rabbit	Corrosive
Oils, orange, sweet	Rabbit	Mild irritant
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant
potassium hydroxide	Rabbit	Corrosive
linalool	Rabbit	Irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Overall product	similar health hazards	Corrosive
Alcohols, C7-21, ethoxylated	Not available	Moderate irritant
Alcohols, C9-11, ethoxylated	Professional judgement	Corrosive
tetrasodium ethylene diamine tetraacetate	Rabbit	Corrosive
Potassium Silicate	Rabbit	Corrosive
Oils, orange, sweet	Rabbit	Mild irritant
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant
potassium hydroxide	Rabbit	Corrosive
linalool	Rabbit	Moderate irritant

**Skin Sensitisation**

Name	Species	Value
Alcohols, C7-21, ethoxylated	Guinea pig	Not classified
Alcohols, C9-11, ethoxylated	Guinea pig	Not classified
tetrasodium ethylene diamine tetraacetate	Human and animal	Not classified
Potassium Silicate	Mouse	Not classified
Oils, orange, sweet	Mouse	Sensitising
(R)-p-mentha-1,8-diene	Mouse	Sensitising
linalool	Mouse	Sensitising

**Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Alcohols, C9-11, ethoxylated	In Vitro	Not mutagenic
tetrasodium ethylene diamine tetraacetate	In Vitro	Some positive data exist, but the data are not sufficient for classification
tetrasodium ethylene diamine tetraacetate	In vivo	Some positive data exist, but the data are not sufficient for classification
Potassium Silicate	In Vitro	Not mutagenic
Potassium Silicate	In vivo	Not mutagenic
Oils, orange, sweet	In Vitro	Not mutagenic
Oils, orange, sweet	In vivo	Not mutagenic
(R)-p-mentha-1,8-diene	In Vitro	Not mutagenic
(R)-p-mentha-1,8-diene	In vivo	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
tetrasodium ethylene diamine tetraacetate	Ingestion	Multiple animal species	Not carcinogenic
Oils, orange, sweet	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
(R)-p-mentha-1,8-diene	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation
Potassium Silicate	Ingestion	Not classified for development	Mouse	NOAEL 200 mg/kg/day	during gestation
Oils, orange, sweet	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	prematuring & during gestation
Oils, orange, sweet	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesis
(R)-p-mentha-1,8-diene	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	prematuring & during gestation
(R)-p-mentha-1,8-diene	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesis

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Overall product	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	Irritation Positive	
Alcohols, C7-21, ethoxylated	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL NA	
Alcohols, C9-11, ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not available	not available
tetrasodium ethylene diamine tetraacetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	Irritation Positive	
Potassium Silicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Oils, orange, sweet	Ingestion	nervous system	Not classified		NOAEL Not	

(R)-p-mentha-1,8-diene	Ingestion	nervous system	Not classified		available	
potassium hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
linalool	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Dermal	kidney and/or bladder   hematopoietic system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
tetrasodium ethylene diamine tetraacetate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 3 mg/m3	13 weeks
tetrasodium ethylene diamine tetraacetate	Inhalation	liver   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   vascular system	Not classified	Rat	NOAEL 15 mg/m3	13 weeks
tetrasodium ethylene diamine tetraacetate	Ingestion	hematopoietic system   liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
tetrasodium ethylene diamine tetraacetate	Ingestion	heart   gastrointestinal tract   muscles   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
Potassium Silicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
Potassium Silicate	Ingestion	endocrine system   blood	Not classified	Rat	NOAEL 804 mg/kg/day	3 months
Potassium Silicate	Ingestion	heart   liver	Not classified	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Oils, orange, sweet	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks
Oils, orange, sweet	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Oils, orange, sweet	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks

		system   immune system   muscles   nervous system   respiratory system				
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**Aspiration Hazard**

Name	Value
Oils, orange, sweet	Aspiration hazard
(R)-p-mentha-1,8-diene	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Alcohols, C7-21, ethoxylated	68991-48-0	Water flea	Estimated	48 hours	EC50	0.72 mg/l
Alcohols, C7-21, ethoxylated	68991-48-0	Green algae	Estimated	72 hours	EC50	0.37 mg/l
Alcohols, C7-21, ethoxylated	68991-48-0	Common Carp	Estimated	96 hours	LC50	1.2 mg/l
Alcohols, C7-21, ethoxylated	68991-48-0	Green algae	Estimated	72 hours	NOEC	0.09 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Water flea	Experimental	48 hours	EC50	2.686 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green algae	Experimental	72 hours	EC50	45 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Fathead minnow	Experimental	96 hours	LC50	8.5 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Fathead minnow	Experimental	30 days	NOEC	0.73 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green Algae	Experimental	72 hours	NOEC	1.2 mg/l
Potassium Silicate	1312-76-1	Zebra Fish	Estimated	96 hours	LC50	1,108 mg/l
Potassium Silicate	1312-76-1	Green algae	Estimated	72 hours	EC50	>345.4 mg/l
Potassium Silicate	1312-76-1	Water flea	Estimated	48 hours	EC50	1,700 mg/l
Potassium Silicate	1312-76-1	Green algae	Estimated	72 hours	NOEC	35 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Bluegill	Experimental	96 hours	LC50	1,030 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Water flea	Experimental	24 hours	EC50	1,033 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Water flea	Estimated	21 days	NOEC	29 mg/l
Oils, orange, sweet	8008-57-9	Green algae	Estimated	72 hours	EC50	0.32 mg/l
Oils, orange, sweet	8008-57-9	Water flea	Estimated	48 hours	EC50	0.307 mg/l
Oils, orange, sweet	8008-57-9	Fathead minnow	Estimated	96 hours	LC50	0.702 mg/l

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Oils, orange, sweet	8008-57-9	Green algae	Estimated	72 hours	Effect Concentration 10%	0.174 mg/l
Oils, orange, sweet	8008-57-9	Water flea	Estimated	21 days	NOEC	0.08 mg/l
Oils, orange, sweet	8008-57-9	Fathead minnow	Estimated	8 days	NOEC	0.059 mg/l
potassium hydroxide	1310-58-3		Data not available or insufficient for classification			
(R)-p-mentha-1,8-diene	5989-27-5	Fathead minnow	Experimental	96 hours	LC50	0.702 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	EC50	0.32 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	48 hours	EC50	0.307 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	21 days	NOEC	0.08 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	Effect Concentration 10%	0.174 mg/l
C.I. Food Yellow 3	2783-94-0	Crustacea other	Experimental	48 hours	EC50	>4,520 mg/l
linalool	78-70-6	Green Algae	Experimental	72 hours	EC50	>34 mg/l
linalool	78-70-6	Water flea	Experimental	48 hours	EC50	20 mg/l
linalool	78-70-6	Rainbow trout	Experimental	96 hours	LC50	27.8 mg/l
linalool	78-70-6	Green Algae	Experimental	72 hours	NOEC	5.6 mg/l
linalool	78-70-6	Water flea	Experimental	21 days	NOEC	9.5 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C7-21, ethoxylated	68991-48-0	Estimated Biodegradation	28 days	CO2 evolution	83 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Alcohols, C9-11, ethoxylated	68439-46-3	Experimental Biodegradation	28 days	BOD	88 % weight	OECD 301F - Manometric respirometry
Potassium Silicate	1312-76-1	Data not availbl-insufficient			N/A	
tetrasodium ethylene diamine tetraacetate	64-02-8	Estimated Biodegradation	28 days	BOD	0 % BOD/ThBOD	OECD 301D - Closed bottle test
Oils, orange, sweet	8008-57-9	Estimated Photolysis		Photolytic half-life (in air)	2.5 hours (t 1/2)	Other methods
Oils, orange, sweet	8008-57-9	Estimated Biodegradation	14 days	BOD	98 % BOD/ThBOD	OECD 301C - MITI test (I)
potassium hydroxide	1310-58-3	Data not availbl-insufficient			N/A	
(R)-p-mentha-1,8-diene	5989-27-5	Experimental Biodegradation	14 days	BOD	98 % BOD/ThBOD	OECD 301C - MITI test (I)
C.I. Food Yellow 3	2783-94-0	Estimated Biodegradation	28 days	CO2 evolution	16 % weight	OECD 301B - Modified sturm or CO2
linalool	78-70-6	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C7-21, ethoxylated	68991-48-0	Estimated BCF-Carp	72 hours	Bioaccumulation factor	310	
Alcohols, C9-11, ethoxylated	68439-46-3	Estimated Bioconcentration		Bioaccumulation factor	31	Estimated: Bioconcentration factor
Potassium Silicate	1312-76-1	Data not available	N/A	N/A	N/A	N/A

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		or insufficient for classification				
tetrasodium ethylene diamine tetraacetate	64-02-8	Estimated BCF - Bluegill	28 days	Bioaccumulation factor	1.8	Bioconcentration: Flow-through
Oils, orange, sweet	8008-57-9	Estimated Bioconcentration		Bioaccumulation factor	2100	Other methods
potassium hydroxide	1310-58-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
(R)-p-mentha-1,8-diene	5989-27-5	Estimated Bioconcentration		Bioaccumulation factor	2100	Estimated: Bioconcentration factor
C.I. Food Yellow 3	2783-94-0	Estimated Bioconcentration		Bioaccumulation factor	2.3	Estimated: Bioconcentration factor
linalool	78-70-6	Experimental Bioconcentration		Log Kow	2.97	Other methods

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Other adverse effects**

No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

**EU waste code (product as sold)**

20 01 29\* Detergents containing dangerous substances

**SECTION 14: Transportation information**

ADR: UN1824; Sodium Hydroxide Solution; 8; III; C5  
 IMDG: UN1824; Sodium Hydroxide Solution; 8; III; FA, SB  
 IATA: UN1824; Sodium Hydroxide Solution; 8; III

**SECTION 15: Regulatory information**

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

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
C.I. Food Yellow 3	2783-94-0	Gr. 3: Not classifiable	International Agency for Research on Cancer
(R)-p-mentha-1,8-diene	5989-27-5	Gr. 3: Not classifiable	International Agency for Research on Cancer

IngredientCAS Nbr

Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

**15.2. Chemical Safety Assessment**

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

**SECTION 16: Other information****List of relevant H statements**

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

**Revision information:**

Section 1: Product name information was modified.  
 Label: CLP Classification information was modified.  
 Label: CLP Percent Unknown information was added.  
 Label: CLP Precautionary - Response information was modified.  
 Section 2: Other hazards phrase information was modified.  
 Section 3: Composition/ Information of ingredients table information was modified.  
 Section 4: First aid for inhalation information information was modified.  
 Section 5: Fire - Advice for fire fighters information information was modified.  
 Section 5: Hazardous combustion products table information was modified.  
 Section 8: Eye/face protection information information was modified.  
 Section 8: Occupational exposure limit table information was modified.  
 OEL Reg Agency Desc information was modified.

Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 8: Skin protection - protective clothing information information was modified.  
Section 09: Color information was added.  
Section 09: Odor information was added.  
Sections 3 and 9: Odour, colour, grade information information was deleted.  
Section 10: Conditions to avoid physical property information was modified.  
Section 10: Materials to avoid physical property information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Inhalation information information was modified.  
Section 11: Prolonged or repeated exposure may cause standard phrases information was added.  
Section 11: Reproductive and/or Developmental Effects text information was deleted.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 13: 13.1. Waste disposal note information was modified.  
Section 14: Transportation classification information was modified.  
Section 15: Carcinogenicity information information was modified.  
Section 15: Label remarks and EU Detergent information was modified.  
Section 15: Regulations - Inventories information was deleted.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.  
information was modified.  
Section 16: UK disclaimer information was deleted.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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