

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : **Viakal Liquid**  
Product code : PA00187896  
Product group : Trade product

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Intended for general public  
Main use category : Consumer uses: Private households (= general public = consumers)  
Function or use category : Washing and cleaning products (including solvent based products)

**1.2.2. Uses advised against**

No additional information available

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

Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK

Tel: 01932 896000 Fax: 01932 896200

Retail : sds.im@pg.com

Professional : info.uk@pg.com

**1.4. Emergency telephone number**

Emergency number : (UK) Emergency Tel: 0800 328 8304(IRL) Emergency Tel: 1800 509 497

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Xi; R36/38

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation  
H315 - Causes skin irritation

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
P101 - If medical advice is needed, have product container or label at hand  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302+P352 - IF ON SKIN: Wash with plenty of water  
Do not mix with bleach or other cleaning products.

**2.3. Other hazards**

Other hazards not contributing to the classification

: No presence of PBT and vPvB ingredients.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citric Acid	(CAS No) 77-92-9 (EC no) 201-069-1 (REACH-no) 01-2119457026-42	1 - 5	Xi; R36	Eye Irrit. 2, H319
Formic Acid	(CAS No) 64-18-6 (EC no) 200-579-1 (EC index no) 607-001-00-0	1 - 5	C; R35	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Deceth-8	(CAS No) 26183-52-8 (EC no) Polymer	1 - 5	Xn; R22 Xi; R41	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
C9-11 Pareth-8	(CAS No) 68439-46-3 (EC no) Polymer	1 - 5	Xn; R22 Xi; R41	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. Discontinue use of product.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries after inhalation : Coughing. sneezing. Headache. Drowsiness. Dizziness. Shortness of breath.
- Symptoms/injuries after skin contact : Redness. Swelling. dryness. Itching.
- Symptoms/injuries after eye contact : Severe pain. Rednesses. Swelling. Blurred vision.
- Symptoms/injuries after ingestion : Oral mucosal or gastro-intestinal irritation. Nausea. Vomiting. Excessive secretion. Diarrhea.

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

Refer to section 4.1.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

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

- Fire hazard : No fire hazard. Non combustible.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

#### 5.3. Advice for firefighters

- Firefighting instructions : No specific firefighting instructions required.
- Protection during firefighting : In case of inadequate ventilation wear respiratory protection.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves and eye/face protection.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves and eye/face protection.

#### 6.2. Environmental precautions

Consumer products ending up down the drain after use. Prevent soil and water pollution. Prevent spreading in sewers.

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

- For containment : Scoop absorbed substance into closing containers.

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Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

Refer to Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Avoid contact with skin. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood.

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

Storage conditions : Store in original container. Refer to section 10.  
Incompatible products : Refer to section 10.  
Incompatible materials : Not applicable.  
Prohibitions on mixed storage : Not applicable.  
Storage area : Store in a cool area. Store in a dry area.

### 7.3. Specific end use(s)

Refer to section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

No additional information available

#### 8.1.2. Monitoring procedures: DNELS, PNECS, OEL

Citric Acid (77-92-9)	
PNEC (Water)	
PNEC aqua (freshwater)	0.44 mg/l
PNEC aqua (marine water)	0.044 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	34.6 mg/kg dwt
PNEC sediment (marine water)	3.46 mg/kg dwt
PNEC (Soil)	
PNEC soil	33.1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	34.6 mg/l

Formic Acid (64-18-6)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	19 mg/m <sup>3</sup>
Long-term - local effects, inhalation	9.5 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - local effects, inhalation	9.5 mg/m <sup>3</sup>
Long-term - local effects, inhalation	3 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	2 mg/l
PNEC aqua (marine water)	0.2 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	13.4 mg/kg dwt
PNEC sediment (marine water)	1.34 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	7.2 mg/l

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls : No additional information available

8.2.2. Personal protective equipment

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Eye protection	:	Wear eye/face protection.
Skin and body protection	:	Wear suitable gloves.
Respiratory protection	:	Not applicable.
Thermal hazard protection	:	Not applicable.

### 8.2.3. Environmental exposure controls

Not available

## SECTION 9: Physical and chemical properties

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

Property	Value	Unit	Test method/Notes
Appearance	Liquid.		
Physical state	Liquid		
Colour	Coloured.		
Odour	pleasant (perfume).		
Odour threshold	No data available		
pH	2.2		
Melting point	No data available		
Freezing point	No data available		
Boiling point	100	°C	
Flash point			No flash point till boiling
Relative evaporation rate (butylacetate=1)	No data available		
Flammability (solid, gas)	No data available		
Explosive limits	No data available		
Vapour pressure	No data available		
Relative density	No data available		
Solubility	No data available		
Log Pow	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Viscosity	182	cP	
Explosive properties	No additional information available		
Oxidising properties	No additional information available		

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4. Conditions to avoid

Not required for normal conditions of use.

### 10.5. Incompatible materials

Not applicable.

### 10.6. Hazardous decomposition products

None under normal use.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>ANTI-KAL/VIKAL Fresh (Liquid)</b>	
LD50 oral calculated	> 2000 mg/kg

<b>Citric Acid (77-92-9)</b>	
LD50 oral rat	5.4 g/kg OECD 401
LD50 dermal rat	2001 mg/kg OECD 402
ATE CLP (oral)	5400 mg/kg bodyweight
ATE CLP (dermal)	2001 mg/kg bodyweight

<b>Deceth-8 (26183-52-8)</b>	
LD50 oral rat	500 mg/kg
LD50 dermal rabbit	2001 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	2001 mg/kg bodyweight

<b>C9-11 Pareth-8 (68439-46-3)</b>	
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.  
pH: 2.2

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 2.2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Irritation: moderately irritating to eyes. Acute Toxicity: based upon available data of the substances, classification criteria are not met. Carcinogenicity: based upon available data of the substances, classification criteria are not met. Corrosivity: based upon available data of the substances, classification criteria are not met. Mutagenicity: based upon available data of the substances, classification criteria are not met. Irritation: moderately irritating to skin. Repeated Dose Toxicity: based upon available data of the substances, classification criteria are not met. Sensitization: based upon available data of the substances, classification criteria are not met. Toxicity for Reproduction: based upon available data of the substances, classification criteria are not met.

Other information : Likely routes of exposure: skin and eye. Information on Effects: refer to section 4.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<b>Citric Acid (77-92-9)</b>	
LC50 fishes 1	440 ml/l OECD 203, <i>Leuciscus idus melanotus</i>
LC50 other aquatic organisms 1	485 mg/l <i>Entosiphon sulcatum</i>
EC50 Daphnia 1	1535 mg/l <i>Daphnia magna</i>
NOEC (chronic)	> 10000 mg/l <i>Pseudomonas putida</i>
NOEC chronic algae	425 mg/l <i>Scenedesmus quadricauda</i>

<b>Formic Acid (64-18-6)</b>	
LC50 fishes 1	46.7 (46 - 100) mg/l <i>Leuciscus idus melanotus</i>
LC50 other aquatic organisms 1	46.7 mg/l <i>Pseudomonas putida</i>
EC50 Daphnia 1	120 mg/l <i>Daphnia magna</i>
ErC50 (algae)	26.9 mg/l <i>Desmodesmus subspicatus</i>
NOEC chronic crustacea	72 mg/l
NOEC chronic algae	76.8 mg/l OECD 201; <i>Pseudokirchnerella subcapitata</i>

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<b>Deceth-8 (26183-52-8)</b>	
LC50 fishes 1	10 mg/l
EC50 Daphnia 1	10 mg/l
EC50 other aquatic organisms 1	140 mg/l
ErC50 (algae)	10 mg/l

### 12.2. Persistence and degradability

<b>Citric Acid (77-92-9)</b>	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Biodegradation	97 % OECD 301 B

<b>Formic Acid (64-18-6)</b>	
Biodegradation	100 % OECD 301 C

<b>Deceth-8 (26183-52-8)</b>	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Biodegradation	> 60 %

### 12.3. Bioaccumulative potential

<b>Citric Acid (77-92-9)</b>	
Bioconcentration factor (BCF REACH)	3.2
Log Pow	-1.8

<b>Formic Acid (64-18-6)</b>	
Log Pow	-1.9
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

### 12.4. Mobility in soil

<b>Formic Acid (64-18-6)</b>	
Log Koc	< 17.8 OECD 121

<b>Deceth-8 (26183-52-8)</b>	
Mobility in soil	2000 (≥ 5000)

### 12.5. Results of PBT and vPvB assessment

<b>ANTI-KAL/VIKAL Fresh (Liquid)</b>	
Results of PBT assessment	No presence of PBT and vPvB ingredients
<b>Component</b>	
Citric Acid (77-92-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Formic Acid (64-18-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- 13.1.1. Regional legislation (waste) : Disposal must be done according to official regulations.
- 13.1.2. Disposal recommendations : The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. The waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration.  
. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging.
- 13.1.3. EURAL Waste code product : 20 01 29\* - detergents containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

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### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. 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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list

CESIO recommendations

: 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.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### 16.1. Indication of changes

Indication of changes : Not applicable

### 16.2. Abbreviations and acronyms

No additional information available

### 16.3. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]	classification procedure
Skin Irrit. 2	Calculation method
Eye Irrit. 2	Calculation method

### 16.4. Relevant R-phrases and/or H-statements (number and full text) for mixture and substances

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour
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
R22	Harmful if swallowed
R35	Causes severe burns
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R41	Risk of serious damage to eyes
C	Corrosive
Xi	Irritant
Xn	Harmful

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### 16.5. Training advice

Normal use of this product shall imply use in accordance with the instructions on the packaging.

### 16.6. Further information

Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V

SDS P&G CLP

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*