

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) and its amendment Regulation (EU) 2015/830

Issuing Date: 06-Apr-2018 Revision Date: 06-Apr-2018 Version 1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Form Mixture

Product NameViakal Limescale Remover Spray.Product Identifier91492565\_A\_PGP\_CLP\_EUR

Synonyms PA00210540 Product group Trade Product

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

Recommended Use Restricted to professional users
Main user category SU 22 - Professional uses

Use category PC35 - Washing and cleaning products (including solvent based products)

Uses advised against No information available

Product category Specialty Cleaners Liquid

1.3 Details of the supplier of the safety data sheet

Details of the supplier of the safety Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000

data sheet Fax: 01932 896200 E-mail Address pgsds.im@pg.com

1.4 Emergency Telephone Number

Emergency Telephone (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 and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin corrosion/irritation Category 2 - (H315) Serious eye damage/eye irritation Category 2 - (H319)

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Adverse human health effects and symptoms

No information available

#### 2.2 Label elements

Label according to Regulation (EC) No. 1272/2008



Signal Word WARNING

Hazard Statements H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements** 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.

Revision Date: 06-Apr-2018

Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of water

P260 - Do not breathe spray

Do not mix with bleach or other cleaning products

2.3 Other hazards

Other hazards which do not result No presence of PBT and vPvB ingredients

in classification

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Chemical Name	CAS-No	EC-No	REACH Registration No	Weight-%	GHS / CLP Classification 1272/2008 [CLP]	M-Factor (chronic)	M-Factor (acute)
Formic Acid	64-18-6	200-579-1		1 - 5	Flam. Liq. 3(H226) Acute Tox. 4 (Oral)(H302) Acute Tox. 3 (Inhalation)(H331) Skin Corr. 1A(H314)	1	1
Deceth-8	26183-52-8	Polymer		1 - 5	Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318)	1	1
Citric Acid	77-92-9	201-069-1	01-2119457026-42	1 - 5	Eye Irrit. 2 (H319)	1	1

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4: FIRST AID MEASURES

4.1 Description of first-aid measures

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Skin contact IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash

before reuse. If skin irritation or rash occurs: Get medical advice/attention. Discontinue use

of product.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

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. Redness. 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: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO2).

Extinguishing Media Which Must Not Be Used For Safety Reasons Not applicable.

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 reaction known under conditions of normal use.

5.3 Advice for firefighters

Special protective equipment for No specific firefighting instructions required.

fire-fighters

Protective equipment and In case of inadequate ventilation wear respiratory protection. precautions for firefighters

## Section 6: ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel Wear suitable gloves and eye/face protection. Advice for emergency responders Wear suitable gloves and eye/face protection.

6.2 Environmental precautions

Environmental precautions Consumer products ending up down the drain after use. Prevent soil and water pollution.

Prevent spreading in sewers.

6.3 Methods and materials for containment and cleaning up

Methods for containment Scoop absorbed substance into closing containers.

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

Revision Date: 06-Apr-2018

local legislation.

Other information Not applicable.

6.4 Reference to other sections

Other information Refer to Sections 8 and 13.

## Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on 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

Technical measures/Storage Store in original container. Refer to section 10.

conditions

 Incompatible products
 Refer to section 10.

 Incompatible materials
 Refer to section 10.

 Prohibitions on mixed storage
 Not applicable.

Prohibitions on mixed storage Requirements for storage rooms

Store in a cool area. Store in a dry area.

and containers

7.3. Specific end use(s)

Specific end uses Refer to section 1.2.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National Occupational Exposure No information available

Limits

Chemical Name CAS-No Norway Ireland United Kingdom European Union

	Formic Acid	64-18-6	TWA: 5 ppm	TWA: 5 ppm	STEL: 15 ppm	TWA: 5 ppm
			TWA: 9 mg/m <sup>3</sup>	TWA: 9 mg/m <sup>3</sup>	STEL: 28.8 mg/m <sup>3</sup>	TWA: 9 mg/m <sup>3</sup>
١			STEL: 10 ppm	STEL: 15 ppm	TWA: 5 ppm	
١			STEL: 18 mg/m <sup>3</sup>	STEL: 27 mg/m <sup>3</sup>	TWA: 9.6 mg/m <sup>3</sup>	

Revision Date: 06-Apr-2018

#### Derived No Effect Level (DNEL)

#### Consumers

Chemical Name	CAS-No		Consumer - dermal, short-term - local	Consumer - oral, short-term - systemic
Formic Acid	64-18-6	9.5 mg/m³		

Chemical Name	CAS-No	Consumer - oral, long-term - systemic		Consumer - dermal, long-term - local
Formic Acid	64-18-6		3 mg/m³	

#### Predicted No Effect Concentration (PNEC)

Chemical Name	CAS-No	Fresh Water	Marine water	Intermittent release
Formic Acid	64-18-6	2 mg/L	0.2 mg/L	1 mg/L
Citric Acid	77-92-9	0.44 mg/L	0.044 mg/L	1

Chemical Name	CAS-No	Freshwater sediment	Marine sediment	Sewage treatment plant
Formic Acid	64-18-6	13.4 mg/kg	1.34 mg/kg	7.2 mg/L
Citric Acid	77-92-9	34.6 mg/kg sediment dw	3.46 mg/kg sediment dw	1000 mg/L

Chemical Name	CAS-No	Soil	air	Oral
Formic Acid	64-18-6	1.5 mg/kg soil dw		
Citric Acid	77-92-9	33.1 mg/kg soil dw		

## 8.2 Exposure controls

Appropriate engineering controls No information available

Personal protective equipment Protective personal equipment only required in case of professional use or for large packs

(not for household packs). For consumer use please follow recommendation as indicated

on the label of the product.

Hand Protection

Eye Protection

Skin and Body Protection

Respiratory Protection

Thermal hazards

Wear suitable gloves.

Wear suitable gloves.

Not applicable.

Not applicable.

**Environmental exposure controls** Prevent that the undiluted product reaches surface waters.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

<u>Property</u>	Value / Units	Test Method / Notes
Appearance	Liquid	
Physical State @20°C	Liquid	
Color	Coloured	
Odor	pleasant (perfume)	
Odor threshold	No data available	Perceived odor at typical use conditions
рН	2.2	

Molting Doint / Eroszing Doint	No data available	No data available
Melting Point / Freezing Point		INO data avaliable
Boiling point / boiling range	100 - 106 °C	
Flash point	No data available	No Flash to Boiling (NFTB).
Relative Evaporation Rate	No data available	
(butylacetate=1)		
Flammability (solid, gas)	Not applicable	
Explosive limits	No data available	ļ.
Vapor pressure	No data available	
Relative density	1.0258	
Solubility	Soluble in water	
Partition Coefficient	No data available	
(n-octanol/water)		
Autoignition temperature	No data available	Not available. This property is not relevant for the safety and
		classification of this product
Decomposition temperature	No data available	Not available. This property is not relevant for the safety and
5	4	classification of this product
Viscosity	No data available	
Explosive properties	Not applicable	Not applicable. This product is not classified as explosive as it
		does not contain any substances which possesses explosive
		properties CLP (Art 14 (2)).
Oxidizing properties	Not applicable	Not applicable. This product is not classified as oxidizing as it
5		does not contain any substances which possesses oxidizing
		properties CLP (Art 14 (2) )

Revision Date: 06-Apr-2018

#### 9.2 Other information

No information available Other information

#### 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

See section 10.1 on reactivity for more information.

#### 10.4 Conditions to Avoid

None under normal use conditions.

#### 10.5 Incompatible materials

Not applicable.

#### 10.6 Hazardous Decomposition Products

None under normal use conditions.

## Section 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

#### Mixture

Not Classified. Based on the available data, the classification criteria are not met. Acute toxicity Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Skin sensitization Not Classified. Based on the available data, the classification criteria are not met. Respiratory sensitization Not Classified. Based on the available data, the classification criteria are not met. Not Classified. Based on the available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Not Classified. Based on the available data, the classification criteria are not met. Reproductive toxicity Not Classified. Based on the available data, the classification criteria are not met.

STOT - single exposure STOT - repeated exposure Aspiration hazard Not Classified. Based on the available data, the classification criteria are not met. Not Classified. Based on the available data, the classification criteria are not met. Not Classified. Based on the available data, the classification criteria are not met.

Revision Date: 06-Apr-2018

#### Substances in the mixture

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Citric Acid	77-92-9	5400 mg/kg bw (//OECD	> 2000 mg/kg bw (OECD	-
50-300-00-70-70-70-70-70-70-70-70-70-70-70-7	(3/0/2017/2017/10/2017/10/	401)	402)	

## Section 12: ECOLOGICAL INFORMATION

п		$\Gamma \cap$	vi	$\alpha$	**
	2.	Гο	AΙ	u	LV

**Ecotoxicity effects** 

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.

Acute toxicity

Chemical Name	CAS-No	Toxicity to Fish (LC50)*	Toxicity to algae (EC50)*	Toxicity to daphnia and other aquatic invertebrates (EC50)*	Toxicity to Microorganisms (EC50)*
Formic Acid	64-18-6	46 - 100 mg/L (Leuciscus idus melanotus)	26.9 mg/L (Desmodesmus subspicatus (green algae))	120 mg/L (Daphnia magna)	46.7 mg/L (Guideline: German Industrial Standard DIN 38412, Part 8; Pseudomonas putida; static; freshwater)
Citric Acid	77-92-9	440 mg/L (//OECD 203; Leuciscus idus melanotus: 48 h)	-	1535 mg/L (Daphnia magna; 24 h)	-

**Chronic Toxicity** 

Chemical Name	CAS-No	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*
Formic Acid	64-18-6	< 76.8 mg/L (Read across data on ammonium formate; OECD 201; Pseudokirchnerella subcapitata; static; freshwater)		72 mg/L (EU Method C.3; activated sludge, domestic; static; freshwater)	>100 mg/L (OECD 211; Daphnia magna; semi-static; freshwater)
Citric Acid	77-92-9	425 mg/L (Scenedesmus quadricauda; 8 d)			

## 12.2 Persistence and degradability

Persistence and degradability

Chemical Name	CAS-No	Persistence and degradability	Ready Biodegradation Test (OECD 301)
Formic Acid	64-18-6		100 % (OECD 301 C; O2 consumption; 14 d;
	5		mixture of sewage, soil and natural water; aerobic)
Citric Acid	77-92-9	Biodegradable	100% DOC; OECD 301 E; 19 d; > 60% (10 d)

## 12.3 Bioaccumulative potential

Bioaccumulative potential

Chemical Name	CAS-No	Bioaccumulative potential	Octanol/water partition coefficient
Formic Acid	64-18-6	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	-1.9
Citric Acid	77-92-9	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	-1.55

## 12.4 Mobility in soil

#### Mobility

Chemical Name	CAS-No	log Koc
Formic Acid	64-18-6	Koc: < 17.8 (OECD 121; adsorption; HPLC estimation method)

#### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Other adverse effects No information available.

## Section 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste from Residues/Unused **Products** 

Dispose of in accordance with local regulations.

**Disposal Recommendations** 

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. 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. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures

Revision Date: 06-Apr-2018

described in section 7.

**EWC Waste Disposal No** 

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
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	Not applicable
Annex II of MARPOL and the IBC	

Code

	-		
ΙД		_	1
_		•	٠,

14.1	UN no	Not applicable
14.2	UN Proper shipping name	Not applicable
14.3	Hazard Class	Not applicable
14.4	Packing Group	Not applicable
14.5	Environmental Hazards	Not applicable
14.6	Special precautions for user	Not applicable

## ADR

14.1	UN no	Not applicable
14.2	UN Proper shipping name	Not applicable
14.3	Hazard Class	Not applicable
14.4	Packing Group	Not applicable
14.5	Environmental Hazards	Not applicable
14.6	Special precautions for user	Not applicable

## RID

1110		
14.1	UN no	Not applicable
14.2	UN Proper shipping name	Not applicable
14.3	Hazard Class	Not applicable
14.4	Packing Group	Not applicable
14.5	Environmental Hazards	Not applicable
14.6	Special precautions for user	Not applicable

ADN

14.1 UN no Not applicable Not applicable 14.2 UN Proper shipping name 14.3 Hazard Class Not applicable 14.4 Packing Group Not applicable 14.5 Environmental Hazards Not applicable Not applicable 14.6 Special precautions for user

#### Section 15: REGULATORY INFORMATION

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

**EU Regulations** 

Regulation (EC) No. 1907/2006, **REACH Annex XVII Substances** subject to restriction on marketing

and use as amended

Regulation (EC) No. 1907/2006, **REACH Annex XVII Substances** subject to restriction on marketing

and use as amended

Contains no substance on the REACH candidate list.

Contains no REACH substances with Annex XVII restrictions.

Regulation (EC) No. 143/2011 Annex Contains no REACH Annex XIV substances.

XIV Substances Subject to

Authorisation

**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

Revision Date: 06-Apr-2018

manufacturer.

Other regulations, restrictions and

prohibition regulations

Regulation (EC) No. 648/2004 (Detergents regulation). Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]. Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation

(EC 1907/2006).

National regulatory information

No information available

15.2 Chemical Safety Assessment

**Chemical Safety Assessment** No chemical safety assessment has been carried out for this mixture per REACH

regulation.

## Section 16: OTHER INFORMATION

16.1 Indication of changes

Issuing Date: 06-Apr-2018 **Revision Date:** 06-Apr-2018 Reason for revision Not applicable

16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate DNEL: Derived No Effect Level

IATA: International Air Transport Association

LC50: Lethal Concentration to 50% of a test population

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic substance

PNEC(s): Predicted No Effect Concentration(s)

REACH- Registration, Evaluation and Authorization of Chemicals

vPvB: Very Persistent and Very Bioaccumulative

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

Revision Date: 06-Apr-2018

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

#### 16.4 Full text of H-Statements referred to under sections 2 and 3

#### Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and its amendment Regulation (EU) 2015/830

#### 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.

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.

**End of SDS**