

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 sheetFax: 01932 896200E-mail Addresspgsds.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.

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.

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

Redness. Swelling. Dryness. Itching.

contact

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). Not applicable.

Extinguishing Media Which Must

Not Be Used For Safety Reasons

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

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. Wear suitable gloves and eye/face protection. Advice for emergency responders

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.

Not applicable. Other information

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.

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 Ireland **United Kingdom European Union** Norway

Formic Acid	64-18-6	TWA: 5 ppm TWA: 9 mg/m³	TWA: 5 ppm TWA: 9 mg/m ³	STEL: 15 ppm STEL: 28.8 mg/m ³	TWA: 5 ppm TWA: 9 mg/m³
		STEL: 10 ppm STEL: 18 mg/m ³	STEL: 15 ppm STEL: 27 mg/m ³	TWA: 5 ppm TWA: 9.6 mg/m ³	

Revision Date: 06-Apr-2018

Derived No Effect Level (DNEL)

Consumers

Chemical Name	CAS-No	Consumer - inhalative, short-term - local	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,		Consumer - dermal,
			long-term - systemic	innalative, long-term - local	long-term - local
Γ	Formic Acid	mic 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	

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 ProtectionWear suitable gloves.Eye ProtectionWear eye/face protection.Skin and Body ProtectionWear suitable gloves.Respiratory ProtectionNot applicable.

Respiratory Protection Not applicable.
Thermal hazards 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	

Melting Point / Freezing Point	No data available	No data available
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	
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
	N. 1.	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
		does not contain any substances which possesses oxidizing
		properties CLP (Art 14 (2))

Revision Date: 06-Apr-2018

9.2 Other information

Other information No 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

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

<u>Mixture</u>

Acute toxicity Not Classified. Based on the available data, the classification criteria are not met.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Skin sensitization
Respiratory sensitization
Respiratory sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
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.
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.
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.

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	-
		401)	402)	

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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))	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;
			mixture of sewage, soil and natural water; aerobic)
Citric Acid	77-92-9	Biodegradable	100% DOC; OECD 301 E; 19 d; > 60% (10 d)
40.0 Diama 1.0	•	<u> </u>	

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 Koc: < 17.8 (OECD 121; adsorption; HPLC estimation method) Formic Acid 64-18-6

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

Dispose of in accordance with local regulations.

Products 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.

20 01 29* - detergents containing dangerous substances **EWC Waste Disposal No**

15 01 10* - packaging containing residues of or contaminated by dangerous substances

Section 14: TRANSPORT INFORMATION

<u>IMDG</u>	
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

Į	ŀ	١	I	/	١	

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

<u>KID</u>	
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 noNot applicable14.2 UN Proper shipping nameNot applicable14.3 Hazard ClassNot applicable14.4 Packing GroupNot applicable14.5 Environmental HazardsNot applicable14.6 Special precautions for userNot applicable

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 Contains no REACH substances with Annex XVII restrictions.

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.

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

XIV Substances Subject to

Authorisation

CESIO RecommendationsThe 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-2018Revision Date:06-Apr-2018Reason for revisionNot 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