SAFETY DATA SHEET

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

Issuing Date 12-Mar-2019 **Revision date** 12-Mar-2019 **Version** 1

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

1.1 Product identifier

Product Form	Mixture
Product Name	Flash with Bleach 3in1
Product Identifier	90903328_A_RET_CLP_EUR
Synonyms	PA00228899
Product group	Trade Product

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

Recommended use	Intended for general public
Main user category	SU 21 - Consumer uses: Private households (= general public = consumers)
Use category	PC35 - Washing and cleaning products (including solvent based products)
Uses advised against	No information available
Product category	Hypochlorite Bleach

1.3 Details of the supplier of the safety data sheet

Details of the supplier of the safety data sheet	Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 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)
Chronic aquatic toxicity	Category 3 - (H412)

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
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements
P102 - Keep out of reach of children
P101 - If medical advice is needed, have product container or label at hand
P302 + P352 - IF ON SKIN: Wash with plenty of water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P501 - Dispose of contents/container to an appropriate local waste system
P260 - Do not breathe spray

EU Specific Hazard Statements EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3 Other hazards

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

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)
Sodium nonyl sulphate	1072-15-7	214-002-6		1 - 5	Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Eye Dam. 1(H318)	1	1
Sodium Hypochlorite	7681-52-9	231-668-3	01-2119488154-34	1 - 5	Met. Corr. 1(H290) Skin Corr. 1B(H314) Eye Dam. 1(H318) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	1	10
Sodium Hydroxide	1310-73-2	215-185-5	01-2119457892-27	<1	Met. Corr. 1(H290) Skin Corr. 1A(H314)	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 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 (CO_2).
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	Reacts with (some) acids/bases: release of (highly) toxic gases/vapours. If the product is involved in a fire, it can release toxic chlorine gases.

5.3 Advice for firefighters

Special protective equipment for fire-fighters	No specific firefighting instructions required.
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

General Measures	Do not bring in contact with acids. Do not use metal containers.
For non-emergency personnel	Wear suitable gloves and eye/face protection. Wear respiratory protection.
Advice for emergency responders	Wear suitable gloves and eye/face protection. Wear respiratory 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 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 conditions	Store in original container. Refer to section 10.
Incompatible products	Refer to section 10.
Incompatible materials	Refer to section 10.
Prohibitions on mixed storage	Not applicable.
Requirements for storage rooms and containers	Store in a cool area. Store in a dry area.

7.3 Specific end uses
Refer to section 1.2.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
National Occupational Exposure Limits

Chemical name	CAS No.	Norway	Ireland	United Kingdom	European Union
Sodium Hydroxide	1310-73-2	Ceiling: 2 mg/m³	STEL: 2 mg/m³	STEL: 2 mg/m³	

Derived No Effect Level (DNEL)

Workers

Chemical name	CAS No.	Worker - dermal, short-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - local
Sodium Hypochlorite	7681-52-9		3.1 mg/m³	

Chemical name	CAS No.	Worker - inhalative, short-term - local	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic
Sodium nonyl sulphate	1072-15-7		4060 mg/kg bw/d	285 mg/m³
Sodium Hypochlorite	7681-52-9	3.1 mg/m³		1.55 mg/m³

Chemical name	CAS No.	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Sodium Hypochlorite	7681-52-9		1.55 mg/m³
Sodium Hydroxide	1310-73-2		1 mg/m³

Consumers

Chemical name	CAS No.	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local	Consumer - oral, short-term - systemic
Sodium Hypochlorite	7681-52-9	3.1 mg/m³		

Chemical name	CAS No.	Consumer - inhalative, short-term - systemic	Consumer - dermal, short-term - systemic	Consumer - oral, long-term - local
Sodium Hypochlorite	7681-52-9	3.1 mg/m³		

Chemical name	CAS No.	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local
Sodium nonyl sulphate	1072-15-7	24 mg/kg bw/d		
Sodium Hypochlorite	7681-52-9	0.26 mg/kg bw/d	1.55 mg/m³	

Chemical name	CAS No.	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
Sodium nonyl sulphate	1072-15-7	85 mg/m³	2440 mg/kg bw/d
Sodium Hypochlorite	7681-52-9	1.55 mg/m³	

Predicted No Effect Concentration (PNEC)

Chemical name	CAS No.	Fresh Water	Marine water	Intermittent release
Sodium nonyl sulphate	1072-15-7	0.136 mg/L	0.014 mg/L	0.17 mg/L
Sodium Hypochlorite	7681-52-9	0.00021 mg/L	0.000042 mg/L	0.00026 mg/L

Chemical name	CAS No.	Freshwater sediment	Marine sediment	Sewage treatment

				plant
Sodium nonyl sulphate	1072-15-7	2.09 mg/kg sediment dw	0.209 mg/kg sediment dw	1.35 mg/L
Sodium Hypochlorite	7681-52-9			4.69 mg/L

Chemical name	CAS No.	Soil	air	Oral
Sodium nonyl sulphate	1072-15-7	0.34 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 Wear suitable gloves.
Eye Protection Wear eye/face protection.
Skin and Body Protection Wear suitable gloves.
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

Property	Value / Units	Test Method / Notes
Appearance	Liquid	
Physical state	Liquid	
Color	Colorless	
Odor	pleasant (perfume)	
Odor threshold	No data available	Perceived odor at typical use conditions
pH	11 - 11.4	OECD 122
Melting point / freezing point	No data available	Not available. This property is not relevant for the safety and classification of this product
Boiling point / boiling range	100 - 110 °C	TMR A.2.
Flash point	No data available	No Flash to Boiling (NFTB)
Relative Evaporation Rate (butylacetate=1)	No data available	Not available. This property is not relevant for the safety and classification of this product
Flammability (solid, gas)	Not applicable	Not applicable. This property is not relevant for liquid product forms
Upper/lower flammability or explosive limits	No data available	Not available. This property is not relevant for the safety and classification of this product
Vapor pressure	No data available	Not available. This property is not relevant for the safety and classification of this product
Relative density	1.03	
Solubility	Soluble in water	TMR. A.6
Partition Coefficient (n-octanol/water)	Not available	Not applicable. This property is not relevant for mixtures
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 classification of this product
Viscosity	5 cps	OECD 114
Explosive properties	No data available	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	No data available	Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2))

9.2 Other information

Other information No information available.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity
Reacts with (some) acids/bases: release of (highly) toxic gases/vapours. If the product is involved in a fire, it can release toxic chlorine gases.

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
Refer to Section 10 on incompatible materials.

10.5 Incompatible materials
Acids. Reacts with (some) acids: release of toxic and corrosive gases/vapours (chlorine).

10.6 Hazardous Decomposition Products
None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixture

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

Substances in the mixture

Chemical name	CAS No.	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nonyl sulphate	1072-15-7	977 mg/kg bw (OECD 401)	> 2000 mg/kg bw (OECD 402)	-
Sodium Hypochlorite	7681-52-9	-	> 20000 mg/kg bw (OECD 402)	> 10.5 mg/L air (OECD 403)

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Ecotoxicity effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute toxicity

Chemical name	CAS No.	Fish	Algae/aquatic plants	Crustacea	Toxicity to microorganisms
Sodium nonyl sulphate	1072-15-7	> 100 mg/L (OECD 203; Danio rerio; 96 h)	8.64 mg/L (OECD 201; Pseudokirchnerella subcapitata; 72 h)	> 100 mg/L (OECD 202; Daphnia magna; 48 h)	135 mg/L (//OECD 209; 3 h)
Sodium Hypochlorite	7681-52-9	0.032 mg TRO/L (Coho salmon; 96 h)	0.0365 mg/L (OECD 201;	0.035 mg/L (OECD 202; Ceriodaphnia	77.1 mg/L (OECD 209; 3 h)

			Pseudokirchneriella subcapitata; 72 h)	dubia; 48 h)	
Sodium Hydroxide	1310-73-2	-	-	40.4 mg/L (Ceriodaphnia sp.; 48 h)	-

Chronic Toxicity

Chemical name	CAS No.	Toxicity to fish (NOEC or ECx)*	Toxicity to algae (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*
Sodium nonyl sulphate	1072-15-7	> 1.357 mg/L (Pimephales promelas; 42 d)	0.95 mg/L (OECD 201; Pseudokirchnerella subcapitata; 3 d)	1.4 mg/L (OECD 211; Daphnia magna; 21 d)	
Sodium Hypochlorite	7681-52-9	0.04 mg CPO/L (Menidia peninsulae; 28 d)	0.0054 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)	0.007 mg TRO/L	41.1 mg/L (OECD 209; 3 h)

12.2 Persistence and degradability

Persistence and degradability .

Chemical name	CAS No.	Persistence and degradability	Ready Biodegradation Test (OECD 301)
Sodium nonyl sulphate	1072-15-7	Biodegradable.	98%COD; OECD 301 D; > 60% (10 d)

12.3 Bioaccumulative potential

Bioaccumulative potential No information available.

Chemical name	CAS No.	Bioaccumulative potential	Octanol/water partition coefficient
Sodium nonyl sulphate	1072-15-7	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	0.22 (EC 440/2008 A.8)
Sodium Hypochlorite	7681-52-9	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	-3.42
Sodium Hydroxide	1310-73-2	Not measured	

12.4 Mobility in soil

Mobility No information available.

Chemical name	CAS No.	log Koc
Sodium nonyl sulphate	1072-15-7	118 - 147

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 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

13.2 Additional information

Section 14: TRANSPORT INFORMATION

IMDG

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 Marine pollutant	Not regulated
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

IATA

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 Marine pollutant	Not regulated

ADR

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 Marine pollutant	Not regulated

RID

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 Marine pollutant	Not regulated

ADN

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 Marine pollutant	Not regulated

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	Contains no REACH substances with Annex XVII restrictions.
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 XIV Substances Subject to Authorisation	Contains no REACH Annex XIV substances.

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.
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

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	12-Mar-2019
Revision date	12-Mar-2019
Revision Note	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
IMDG: International Maritime Dangerous Goods Code
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]

Skin corrosion/irritation
Category 2 - Calculation method
Serious eye damage/eye irritation
Category 2 Expert judgment and weight of evidence determination
Chronic aquatic toxicity
Category 3 - Calculation method

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

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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