Safety Data Sheet according to (EC) No 1907/2006

SDS No. : 2001
V004.7
Revision: 16.07.2015
printing date: 14.02.2017
Replaces version from: 08.04.2015

Persil Megaperls® Color

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

1.1. Product identifier
Persil Megaperls® Color

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
heavy duty detergent

1.3. Details of the supplier of the safety data sheet
Henkel Wasch- und Reinigungsmittel GmbH
Henkelstr. 67
D-40589 Düsseldorf
Phone: ++49 (0)211-797 0

SDB.HenkelWM@henkel.com

1.4. Emergency telephone number
The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):
Eye Irrit. 2
H319 Causes serious eye irritation.
Aquatic Chronic 3
H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Warning

Hazard statement:
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear eye protection.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards
None if used properly.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	270-115-0	01-2119489428-22	>= 15- < 19 %	Acute toxicity 4; Oral H302 Skin irritation 2 H315 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	273-257-1	01-2119490225-39	>= 5- < 10 %	Skin irritation 2; Dermal H315 Serious eye damage 1 H318 Specific target organ toxicity - single exposure 3; Inhalation H335 Chronic hazards to the aquatic environment 3 H412
Alcohols, C12-18, ethoxylated 68213-23-0			>= 1- < 6 %	Acute toxicity 4 H302 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Citric acid 77-92-9	201-069-1	01-2119457026-42	>= 1- < 5 %	Serious eye irritation 2 H319
Sodium carbonate 497-19-8	207-838-8	01-2119485498-19	>= 1- < 5 %	Serious eye irritation 2 H319

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:
Rinse mouth with water, (only if the person is conscious).
Do not induce vomiting, seek medical advice immediately.

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

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

After inhalation: No special action.
After skin contact: No special action.
After eye contact: No special action.
After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).
After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

Extinguishing media which must not be used for safety reasons:
None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If large amounts are released contact the fire service.
Avoid contact with skin and eyes.
Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special measures required if used properly.

Hygiene measures:
Protective equipment only required in case of industrial use or for large packs (not for household packs)
Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

7.2. Conditions for safe storage, including any incompatibilities
Store dry at between +5 and +40°C.
Consider national regulations.

7.3. Specific end use(s)
heavy duty detergent

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters
Valid for
Germany

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Remarks
POLYETHYLENE GLYCOL 25322-68-3			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
POLYETHYLENE GLYCOL 25322-68-3		1.000	Exposure limit(s):	8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

8.2. Exposure controls

Respiratory protection:
If dust is produced wear P2 mask.

Hand protection:
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The following data apply to the whole mixture.

Appearance	pearls free-flowing white, speckles, red
Odor	fresh

pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Water)	8,5 - 9,5
Initial boiling point	Not applicable
Flash point	Not applicable
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density	Not applicable
Bulk density	730 - 790 g/l
Viscosity	Not applicable
Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative)	soluble in water
Solidification temperature	Not applicable
Melting point	Not applicable
Flammability	Not applicable
Auto-ignition temperature	Not applicable
Explosive limits	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Evaporation rate	Not applicable
Vapor density	Not applicable
Oxidising properties	The substance or mixture is not classified as oxidizing.

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under normal conditions of temperature and pressure.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	1.080 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-18, ethoxylated 68213-23-0	LD50	1.700 mg/kg	oral		rat	
Citric acid 77-92-9	LD50	11.700 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Sodium carbonate 497-19-8	LD50	2.800 mg/kg	oral		rat	

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Citric acid 77-92-9	LD50	> 2.000 mg/kg	dermal		rat	
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	dermal		rabbit	

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Sodium carbonate 497-19-8	Acute toxicity estimate (ATE) LC50	5,1 mg/l	inhalation inhalation	2 h	rat	Expert judgement

Skin corrosion/irritation:

The mixture was classified based on data of similar tested mixtures following the EU Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, ECHA Guidance on the application of CLP criteria and A.I.S.E. recommendations. Relevant toxicological information on the substances listed under Section 3 is provided in the following.

The product has not to be classified as skin irritation based on experimental data of an OECD 439 Test with a similar mixture.

Serious eye damage/irritation:

The mixture was classified based on data of similar tested mixtures following the EU Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, ECHA Guidance on the application of CLP criteria and A.I.S.E. recommendations. Relevant toxicological information on the substances listed under Section 3 is provided in the following.

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 438 Test with a similar mixture.

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Result	Test type	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	not sensitising		guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Citric acid 77-92-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		Ames Test

Repeated dose toxicity

Hazardous substances CAS-No.	ResultValue	Route of application	Exposure time / Frequency of treatment	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3		oral: gavage	one monthdaily	rat	
	125 mg/kg	oral: gavage	one monthdaily	rat	

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	350 mg/kgNOAEL F1 350 mg/kgNOAEL F2 350 mg/kg	three-generation study oral: feed		rat	

SECTION 12: Ecological information

12.1. Toxicity

Toxicity (Fish):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	> 0,43 - 0,89 mg/l	Fish	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD 210 (fish early lite stage toxicity test)
	LC50	1,67 mg/l	Fish	96 h	Lepomis macrochirus	
	NOEC	1 mg/l	Fish	28 d	Lepomis macrochirus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LC50	> 10 - 100 mg/l	Fish	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	> 0,1 - 1 mg/l	Fish		Pimephales promelas	OECD 210 (fish early lite stage toxicity test)
Alcohols, C12-18, ethoxylated 68213-23-0	LC50	1,2 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
	NOEC	0,32 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Citric acid 77-92-9	LC50	> 250 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Sodium carbonate 497-19-8	LC50	300 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	2,9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	> 10 - 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3 mg/l	Daphnia	24 h	Daphnia magna	
Citric acid 77-92-9	EC50	275 mg/l	Daphnia	24 h	Daphnia magna	
Sodium carbonate 497-19-8	EC50	200 - 227 mg/l	Daphnia	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Toxicity (Algae):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	2,4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	
	EC50	127,9 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	> 10 - 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3,1 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Citric acid 77-92-9	EC50	> 640 mg/l	Algae	7 d	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium carbonate 497-19-8	EC50	137 mg/l	Algae	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	ResultValue	Route of application	Degradability	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	readily biodegradable	aerobic	> 60 %	
Alcohols, C12-18, ethoxylated 68213-23-0	readily biodegradable	aerobic	79 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Citric acid 77-92-9	readily biodegradable	aerobic	79 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	3,32					
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	-2,1				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Citric acid 77-92-9	-1,72				20 °C	EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
Only completely empty containers are to be disposed of as recoverable materials.

SECTION 14: Transport information

14.1. UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packaging group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	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

National regulations/information (Germany):

WGK:	WGK = 2, water endangering product. Classification according to the mixture rules in German VwVwS regulation annex 4 from 27.July 2005.
Storage class according to TRGS 510:	11

Declaration of ingredients according to Detergent Regulation 648/2004/EC

> 30 %	zeolites
15 - 30 %	anionic surfactants
5 - 15 %	non-ionic surfactants
< 5 %	polycarboxylates
	phosphonates
	soap
Further ingredients	Perfumes
	Benzyl salicylate
	Hexyl cinnamal
	Linalool
	Citronellol
	Enzymes

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s): 1 - 3