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

Clynol Viton Bleaching Powder White

SDS No. : 360360
V001.4
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Clynol Viton Bleaching Powder White

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

1.3. Details of the supplier of the safety data sheet
Henkel AG & Co. KGaA
Düsseldorf Germany
Henkelstr. 67
40191 Düsseldorf
Phone: +49 211-797-0

E-mail address of person responsible for Safety Data Sheet:
Henkel Cosmetics, e-mail : Bruce.Cox@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):

Oxidizing solids	Category 3
May intensify fire; oxidizer.	
Corrosive to metals	Category 1
May be corrosive to metals.	
Acute toxicity	Category 4
Harmful if swallowed.	
Skin corrosion	Category 1
Causes severe skin burns and eye damage.	
Serious eye damage	Category 1
Causes serious eye damage.	
Respiratory sensitizer	Category 1
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitizer	Category 1
May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
May cause respiratory irritation.	

2.2. Label elements (CLP)

Hazard pictogram:

Signal word: Danger

Hazard statement:
H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Precautionary statement: Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement: Response
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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
dipotassium peroxodisulphate 7727-21-1	231-781-8	01-2119495676-19	>= 30- < 50 %	H272 Oxidizing solids 3 H335 Specific target organ toxicity - single exposure 3 H315 Skin irritation 2 H334 Respiratory sensitizer 1 H317 Skin sensitizer 1 H302 Acute toxicity 4; Oral H319 Serious eye irritation 2
sodium metasilicate 6834-92-0	229-912-9	01-2119449811-37	>= 10- < 20 %	H314 Skin corrosion 1B H290 Corrosive to metals 1 H335 Specific target organ toxicity - single exposure 3
Diammonium peroxodisulphate 7727-54-0	231-786-5	01-2119495973-19	>= 5- < 10 %	H302 Acute toxicity 4; Oral H319 Serious eye irritation 2 H335 Specific target organ toxicity - single exposure 3 H315 Skin irritation 2 H334 Respiratory sensitizer 1 H317 Skin sensitizer 1 H272 Oxidizing solids 3
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	205-358-3	01-2119486775-20	>= 1- < 10 %	H332 Acute toxicity 4 H373 Specific target organ toxicity - repeated exposure 2

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.
Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse immediately with plenty of running water (for 10 minutes). Remove all contaminated clothing and apply bandage.
Seek medical advice.

Eye contact:
Immediately flush eyes with water (for 10 minutes), put on a bandage with sterile gauze, see an oculist.

Ingestion:
Rinse the mouth. Drink plenty of water. Immediate medical advice necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
All common extinguishing agents are suitable.

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

5.2. Special hazards arising from the substance or mixture

The release of following substances is possible in case of fire:

Nitrous gases
Carbon dioxide
Generation of oxygen
Sulphur oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus.
Wear protective equipment.

Additional information:

The product intensifies fire
Remove product from danger zone.
Extend fire extinguishing measures to the surroundings.
Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.
Collect contaminated fire fighting water separately. It must not enter drains.
In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Avoid contact with skin and eyes.
Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.

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.
Avoid dust formation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling advice:
Ensure good ventilation/suction at the workplace.
Avoid skin and eye contact.
Keep dust formation and -deposit to a minimum.
Avoid dust formation, vacuum.

Fire and explosion protection information:
Avoid the formation and build-up of dust - danger of dust explosion.
Keep away from combustible material.

Hygiene measures:
Do not eat, drink or smoke while working.
Immediately remove soiled or soaked clothing.
Wash hands before work breaks and after finishing work.
Keep away from food, beverages and animal feed.

7.2. Conditions for safe storage, including any incompatibilities
Store in sealed original container protected against moisture.
Store far from foodstuffs.

7.3. Specific end use(s)
Bleaching

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
White mineral oil (petroleum) 8042-47-5			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
White mineral oil (petroleum) 8042-47-5		5	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 7631-86-9		4	Exposure limit(s):	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

Engineering controls:
Ensure good ventilation/suction at the workplace.

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.
Dust mask, P2 particle filter.

Hand protection:
Protective gloves from natural India rubber are to be worn when handling the product. The product is a dry powder, a penetration of the intact glove is not expected even during longer periods of wearing. It is possible though that when wearing the gloves for several hours uncomfortable sensations can occur caused by body heat and humidity.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The following data apply to the whole mixture:

Appearance	powder fine white
Odor	floral
pH (20 °C (68 °F); Conc.: 10 Weight%; Solvent: Water)	11,60 - 12,20
Initial boiling point	Not applicable

Flash point	Not applicable
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density	Not applicable
Bulk density	770,000 - 870,000 g/l
Viscosity	Not applicable
Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative)	Partially soluble
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	Not applicable
Container pressure	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Accelerators.
Contaminants (e.g. rust, dust, ash).
Combustible materials.
Reaction with heavy metalls.
Reaction with strong acids.
Reaction with strong bases

10.2. Chemical stability
None known.

10.3. Possibility of hazardous reactions
See section reactivity
None known.

10.4. Conditions to avoid
Keep away from sources of heat or ignition and protect from moisture.
Small amounts of moisture and impurities can noticeably reduce the SADT.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

General toxicological information:
The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

11.1. Information on toxicological effects

Acute oral toxicity:

Harmful if swallowed.

Hazardous substances CAS-No.	Value type	Value	Species	Method
dipotassium peroxodisulphate 7727-21-1	LD50	700 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Diammonium peroxodisulphate 7727-54-0	LD50	495 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	LD50	2.800 mg/kg	rat	BASF Test

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
dipotassium peroxodisulphate 7727-21-1	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)
sodium metasilicate 6834-92-0	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Diammonium peroxodisulphate 7727-54-0	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)

Acute inhalative toxicity:

Irritating to respiratory system

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Diammonium peroxodisulphate 7727-54-0	Acute toxicity estimate (ATE)	5,1 mg/l	dust/mist			Expert judgement
Diammonium peroxodisulphate 7727-54-0	LC0	2,95 mg/l		4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Corrosive

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
sodium metasilicate 6834-92-0	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Diammonium peroxodisulphate 7727-54-0	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Risk of serious damage to eyes

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diammonium peroxodisulphate 7727-54-0	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

May cause sensitization by inhalation.
May cause sensitization by skin contact.

Hazardous substances CAS-No.	Result	Test type	Species	Method
sodium metasilicate 6834-92-0	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Diammonium peroxodisulphate 7727-54-0	sensitising	Freund's complete adjuvant test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
sodium metasilicate 6834-92-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
sodium metasilicate 6834-92-0	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
sodium metasilicate 6834-92-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Diammonium peroxodisulphate 7727-54-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
sodium metasilicate 6834-92-0	negative	oral: feed		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
sodium metasilicate 6834-92-0	NOAEL P > 159 mg/kg	multigeneration study	oral: drinking water	rat	not specified
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	NOAEL P >= 250 mg/kg NOAEL F1 >= 250 mg/kg NOAEL F2 >= 250 mg/kg		oral: feed	rat	not specified

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
sodium metasilicate 6834-92-0	NOAEL 227 - 237 mg/kg	oral: drinking water	3 m daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Diammonium peroxodisulphate 7727-54-0	NOAEL 300 ppm	oral: feed	28 days permanent	rat	not specified
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	NOAEL >= 500 mg/kg	oral: feed	13 weeks daily	rat	not specified

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:
The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	LC50	771 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium metasilicate 6834-92-0	LC50	210 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
Diammonium peroxodisulphate 7727-54-0	LC50	76,3 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	LC50	320 mg/l	96 h	Poecilia reticulata	EU Method C.1 (Acute Toxicity for Fish)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	EC50	133 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sodium metasilicate 6834-92-0	EC50	1.700 mg/l	48 h	Daphnia magna	not specified
Diammonium peroxodisulphate 7727-54-0	EC50	120 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium metasilicate 6834-92-0	EC0	36 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
sodium metasilicate 6834-92-0	EC50	213 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Diammonium peroxodisulphate 7727-54-0	EC50	> 33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diammonium peroxodisulphate 7727-54-0	EC10	33 mg/l	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dipotassium peroxodisulphate 7727-21-1	EC 50	116 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
sodium metasilicate 6834-92-0	EC0	1.000 mg/l	30 min		not specified
Diammonium peroxodisulphate 7727-54-0	EC10	36 mg/l	18 h		not specified
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	EC10	48 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3			5 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3			3 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	-11,7		not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
dipotassium peroxodisulphate 7727-21-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
sodium metasilicate 6834-92-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Diammonium peroxodisulphate 7727-54-0	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Disodium dihydrogen ethylenediaminetetraacetate 139-33-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Consider national regulations.
Special waste incineration or special disposal with the approval of the responsible local authority.

SECTION 14: Transport information

14.1. UN number

ADR	3085
RID	3085
ADN	3085
IMDG	3085
IATA	3085

14.2. UN proper shipping name

ADR	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium persulfate,Sodium metasilicate)
RID	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium persulfate,Sodium metasilicate)
ADN	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium persulfate,Sodium metasilicate)
IMDG	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium persulfate,Sodium metasilicate)
IATA	Oxidizing solid, corrosive, n.o.s. (Potassium persulfate,Sodium metasilicate)

14.3. Transport hazard class(es)

ADR	5.1 (8)
RID	5.1 (8)
ADN	5.1 (8)
IMDG	5.1 (8)
IATA	5.1 (8)

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

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 Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	IMDG-Code: Segregation group 16- Peroxides; Segregation group 18- Alkalis
IATA	not applicable

Protect from moisture
Must be protected from direct sunshine and stored in a cool and well ventilated place, away from all sources of heat.

14.7. Transport in bulk according to Annex II of Marpol 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:	2, water-endangering product. (German VwVwS of May 17, 1999) Classification in conformity with the calculation method
Storage class according to TRGS 510:	5.1B

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Further information:
This information is not related to the use of the product, it is based on our current level of knowledge.