SAFETY DATA SHEET

Issue 1: 2nd September 2019

1. Product and Company Identification

Code: 073656
Product name: Osmo Violet Toning Bleach Powder

Intended use: Bleaching powder for hair (for cosmetic use)

Company Name: Osmo UK
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2. Hazard Identification

R Phrases	Finished cosmetic product. Not classifiable as hazardous under EU Directive 99/45/EC
Most important hazards:	High pH, oxidising solid
Specific hazards:	May provoke a reaction in sensitised individuals or asthmatics May cause sensitisation

3. Composition/information on ingredients

Ingredient	Range	CAS	EINECS	Classification	Symbol Letter(s)	R Phrase(s)
Amorphous Silica	Less than1%	7631-86-9, 112945-52-5	231-545-4	Not classified	-	Community Workplace Exposure Limit
Solanum Tuberosum Starch	3% to less than 10%	9005-25-8	232-679-6	Not classified	-	Community Workplace Exposure Limit
Ammonium Persulfate	10% to less than 30%	7727-54-0	231-786-5	Oxidising, Harmful	O, Xn, Xi	R8, R22, R36/37/38, R42/43
Potassium Persulfate	30% or more	7727-21-1	231-781-8	Oxidising, Harmful	O, Xn, Xi	R8, R22, R36/37/38, R42/43
Sodium Persulfate	1% to less than 3%	7775-27-1	231-892-1	Oxidising, Harmful	O, Xn, Xi	R8, R22, R36/37/38, R42/43
Sodium Metasilicate	10% to less than 30%	6834-92-0	229-912-9	Corrosive	C	R34, R37
EDTA	1% to less than 3%	60-00-4	200-449-4	Irritant	Xi	R36

4. First Aid Measures

Skin contact:	If irritation occurs, wash area with water, mild soap may be used. Dry thoroughly.
Eye contact:	In case of accidental contact with the eye, wash out immediately with running water or eyewash solution, remove any contact lenses, continue washing for at least 10 minutes, and obtain medical advice.
Ingestion:	Wash out mouth with water (do not swallow). Drink 500ml (1 pint) of water or milk. Do not induce vomiting. Keep sitting up. Seek medical attention.
Inhalation:	If inhaled remove to fresh air. In cases of acute exposure seek medical attention. Oxygen may be administered by a qualified person
Effects of over-exposure:	Irritating to skin and mucous membranes of eyes and respiratory system. May trigger asthmatic attacks in certain sensitive people.

5. Fire Fighting Measures

Suitable extinguishing media:	Water, water mist
Unsuitable extinguishing media:	
Special hazards in fire:	Avoid contact with heat of fire as the product releases oxygen. Product may release (on burning) oxides of sulphur, ammonia, fumes of sulphuric acid and oxygen.
Required special protective equipment for fire-fighters:	

6. Accidental Release Measures

Personal precautions:	Wear suitable gloves. Large spills may require dust mask and goggles as well.
Environmental precautions:	If possible, vacuum to avoid air contamination After removing powder, wash area to drain with high dilution of water.
Methods for cleaning:	Vacuum immediately to avoid air contamination. In cases of large spills sweep gently, to avoid dust generation, into watertight containers. Small spills (less than 100g) may be wiped up with a dry cloth, and the cloth cleaned by rinsing thoroughly under a running tap. Do not mix with other waste. Do not use metal shovels, dustpans or other metal tools.

7. Handling & Storage

7.1	Handling:	Do not eat, drink or smoke whilst handling the product. Wear gloves. Do not return unused material to container. Keep powder cool and dry. Do not use metal objects (mixing bowls etc.) when mixing the product. Make sure there is adequate ventilation.
7.2	Storage:	Cool and dry. Do not expose to heat, fire, combustible materials or strong reducing agents. Store in original containers away from sources of heat.
7.3	Specific Use:	Carefully open sachet and pour into a non-metallic mixing bowl. Take care not to generate dust. Add the appropriate amount of developer and mix thoroughly.

8. Exposure controls/personal protection

8.1	Exposure limit values	**Silica:** Inhalable dust: 6mg/m^3 Long-term exposure (8-hour TWA) Respirable dust: 2.4mg/m^3 Long-term exposure (8-hour TWA) **Starch:** Total Inhalable dust: 10mg/m^3 Long-term exposure (8-hour TWA) Respirable dust: 4mg/m^3 Long-term exposure (8-hour TWA) **General Dust** Total Inhalable dust: 10mg/m^3 Long-term exposure (8-hour TWA) Respirable dust and fume: 4mg/m^3 Long-term exposure (8-hour TWA)
8.2	Exposure controls	Good general ventilation is required. Use of dust-extraction is recommended.
8.2.1a	Respiratory Protection	Not normally required. In case of spills of up to 1kg wear a disposable dust mask conforming to FFP1
8.2.1b	Hand Protection	Wear gloves. Lightweight polythene gloves may be worn, but disposable gloves conforming to EN374 are advised.
8.2.1c	Eye Protection	Not normally required. Eye wash stations must be available. In the case of large spills, eye protection to EN166-1-F is advised.
8.2.1d	Skin Protection	Special protection is not normally required. Always wash skin thoroughly after handling chemicals. Launder contaminated clothing separately from other clothes.
8.2.2	Environmental Exposure Controls	Not normally required.

9. Physical and chemical properties

9.1	General information	
	Appearance:	Low dust, violet powder
	Odour:	Neutral, bleach-like
9.2	Important health, safety and environmental information	
	pH 1%:	10.3 – 10.9
	Boiling point/boiling range:	Not applicable
	Flash point	Not determined
	Flammability	Not determined
	Explosive properties	Not determined
	Oxidising properties	Oxidising agent
	Vapour pressure	Not determined
	Relative density	Approx 0.6 g/cm^3
	Solubility	Partially water soluble
	Water solubility	Contains water-soluble substances. The preparation is water miscible, and forms a pasty mass when wetted.
	Partition coefficient: n-octanol/water	Not determined
	Viscosity	Not applicable (solid)
	Vapour density	Not applicable (solid)
	Evaporation rate	Not applicable (solid)
9.3	Other information	None

10. Stability and reactivity

10.1	Conditions to avoid:	Moisture and heat
10.2	Materials to avoid:	Reducing agents, readily oxidizable materials and combustibles Strong acids, bases and alkalis Heavy metals (metal mixing bowls etc) and heavy metal salts
10.3	Hazardous decomposition products:	Ammonia, oxygen and sulphur oxides

11. Toxicological information

Summary. Exposure may affect human health as follows:

Route	Acute Exposure	Repeat or Chronic Exposure
Skin contact:	Irritant, severe reactions may occur in sensitised individuals	May cause sensitisation
Eye contact:	Irritant	
Inhalation:	Irritant, severe reactions may occur in sensitised individuals or asthmatics. May provoke an asthma attack	May cause sensitisation
Ingestion:	Large ingested quantities may give rise to gas evolution and distension of internal organs.	May cause sensitisation

Individual raw materials are supplied with the following toxicological information:
Hair Systems Europe Ltd has not commissioned, and does not commission animal testing, but is obliged to report animal test data where available.

Sodium Metasilicate	**10% to less than 30%**
Acute Effects	
All symptons of acute toxicity are due to high alkalinity	
LD50, oral, rat	1152-1349 mg/kg
LD50, oral, mouse	770-820 mg/kg
Inhalation LC50, rat	>2.06g/m3
LC0, inhalation, rat, 4hr	0.139 mg/l
Dermal	Corrosive to skin and mucous membranes
Sensitisation	Not sensitising (LLNA)
Bacterial mutagen	No
Skin corrosion/irritation:	Corrosive to skin.
Serious eye damage/irritation:	Corrosive to eyes.
Mutagenicity:	No evidence of genotoxicity. In vitro/in vivo negative.
Carcinogenicity:	No structural alerts.
Reproductive toxicity:	
Effects on fertility:	NOAEL (rat) > 159 mg/kg bw/d.
Developmental toxicity:	NOAEL (mouse) > 200 mg/kg bw/d.
STOT-single exposure:	Irritating to respiratory system.
STOT-repeated exposure:	NOAEL oral (rat): 227 mg/kg bw/d
NOAEL oral (mouse):	260 mg/kg bw/d
Aspiration hazard:	Not classified.

Ammonium Persulphate	**10% to less than 30%**
Acute Effects	
LD50 oral, rat	700-742 mg/kg mg/kg
LC50, inhalation (4hr), rat	> 2,95 mg/L/4h
LD50, dermal, rat	>2000 mg/kg
Sensitization	Causes sensitization
AMES-test	Not mutagenic in AMES test
Acute toxicity (oral)	Acute Tox. 4; H302 = Harmful if swallowed.
Acute toxicity (dermal)	Based on available data, the classification criteria are not met.
Acute toxicity (inhalative)	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Skin Irrit. 2; H315 = Causes skin irritation.
Rabbit	irritant .
Eye damage/irritation	Eye Irrit. 2; H319 = Causes serious eye irritation.
Rabbit	mild irritant
Human experience	irritant.
Sensitisation to the respiratory tract	Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Human experience	May cause sensitization by inhalation.
Skin sensitisation	Skin Sens. 1; H317 = May cause an allergic skin reaction. Guinea pig
Acute toxicity (oral)	Acute Tox. 4; H302 = Harmful if swallowed.
Acute toxicity (dermal)	Based on available data, the classification criteria are not met.
Acute toxicity (inhalative)	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Skin Irrit. 2; H315 = Causes skin irritation. Rabbit irritant

Eye damage/irritation	Eye Irrit. 2; H319 = Causes serious eye irritation. Rabbit mild irritant
Human experience	irritant.
Sensitisation to the respiratory tract	Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Human experience	May cause sensitization by inhalation.
Skin sensitisation	Skin Sens. 1; H317 = May cause an allergic skin reaction. Guinea pig positive
Human experience	May cause sensitization by skin contact.
Germ cell mutagenicity/Genotoxicity	Based on available data, the classification criteria are not met.
Bacterial mutagenicity	Salmonella typhimurium negative.
Carcinogenicity	Based on available data, the classification criteria are not met. At long term exposure Mouse negative
Reproductive toxicity	Based on available data, the classification criteria are not met.
Effects on or via lactation	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	STOT SE 3; H335 = May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Potassium Persulphate	**30% or more**
Acute Effects	
LD50 oral, rat	825 mg/kg
LC50, inhalation (1hr), rat	>42.9 mg/kg
LD50, dermal, rat	>10000 mg/kg
Acute toxicity (oral)	Acute Tox. 4; H302 = Harmful if swallowed.
Acute toxicity (dermal)	Based on available data, the classification criteria are not met.
Acute toxicity (inhalative)	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Skin Irrit. 2; H315 = Causes skin irritation.
Rabbit	Not an irritant .
Human experience	May cause irritations.
Eye damage/irritation	Eye Irrit. 2; H319 = Causes serious eye irritation.
Rabbit	mild irritant
Human experience	irritant.
Sensitisation to the respiratory tract	Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation	Skin Sens. 1; H317 = May cause an allergic skin reaction. Mouse positive
Germ cell mutagenicity/Genotoxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Effects on or via lactation	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	STOT SE 3; H335 = May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Sodium Persulphate	**1% to less than 3%**
Acute Effects	
LD50 oral, rat	742 mg/kg: OECD Test Guideline 401
LC50, inhalation (4hr), rat	>5.1 mg/l
LD50, dermal, rat	>2000 mg/kg
May cause skin irritation or dermatitis	
Irritation,Rabbit	Skin irritation: OECD Test Guideline 404
Causes serious eye irritation	
Rabbit	Irritating to eyes: OECD Test Guideline 405
Skin sensitisation	May cause an allergic skin reaction
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled

AMES-test	Not mutagenic in AMES test
Carcinogenicity	Negative :OECD guideline 451
Reproductive toxicity	Negative: OECD guideline 421
STOT	May cause respiratory irritation
STOT repeated	Based on available data, the classification criteria are not met.
Sodium Stearate	**3% to less than 10%**
Acute Effects	
LD50 oral, rat	>2 g/kg
Paraffinum Liquidum	**1% to less than 3%**
Acute Effects	
LD50 oral, rat	>5000 mg/kg
EDTA	**1% to less than 3%**
Acute toxicity	
Oral LD50	4500 mg/kg
Dermal LD50	No data available
Inhalation LC50	Based on "read-across" (Ethylenediaminetetraacetic acid, disodium salt): 1000< 4-h-LC50 < 5000 mg/m³
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Conclusive but not sufficient for classification.
STOT - repeated exposure	Conclusive but not sufficient for classification.
Aspiration hazard	Not likely to occur (solid)
Irritation	
Skin	Non-irritating
Eye	Irritating to eyes
Respiratory	Non-irritating (Based on: acute inhalation test)
Sensitization	Based on "read-across" (Ethylenediaminetetraacetic acid, disodium salt): Not sensitizing
Genotoxicity	Based on "read-across" (Hydroxyethylethylenediaminetriacetic acid, trisodium salt): Ames test: Negative Chromosome Aberration Test: Negative Mouse Lymphoma test: Negative In vivo micronucleus test: Negative
Chronic toxicity / Carcinogenicity	
Oral	Based on "read-across" (Ethylenediaminetetraacetic acid, disodium salt): 90-day No Observed Adverse Effect Level (NOAEL): 500 mg/kg (general signs of toxicity) Based on "read-across" (Hydroxyethylethylenediaminetriacetic acid, trisodium salt): 104 week No Observed Adverse Effect Level (NOAEL) >= 500 mg/kg
Inhalation:	Based on "read-across" (Ethylenediaminetetraacetic acid, disodium salt): 5-day Lowest observable adverse effect concentration (LOAEC): 30 mg/m³ (respiratory tract pathology)
Reproductive toxicity:	Based on "read-across" (Ethylenediaminetetraacetic acid, calcium-disodium complex): oral, NOAEL reproduction: >= 250 mg/kg Based on "read-across" (several EDTA compounds): developmental effects seen at high oral doses only. NOAEL development: was not established

Summary of toxicological information

The substance is a solid and is not acutely toxic by the oral route but harmful following inhalation. It is not irritating to the skin but irritating to the eyes. It is not a dermal sensitiser. In repeated long-term oral studies with Ethylenediaminetetraacetic acid (EDTA) compounds the overall NOAEL was about 500 mg/kg bw. The substance is not genotoxic or carcinogenic, Based on studies with other EDTA compounds, the substance is not classified for reproduction toxicity.

CI 77007	**1% to less than 3%**
Acute Effects	
LD50, oral, rat	>10000 mg/kg
Skin irritation, short term, rabbit	None
Skin irritation, short term, guinea pig (6.25%)	None
Mutagenicity	None
Teratogenicity	None
Silica	**Less than 1%**
LD50, oral, rat	>10000 mg/kg
LC0, inhalation, rat, 4hr	0.139 mg/l
LD50, dermal, rat	>5000 mg/kg
*Skin irritation, rabbit	Not irritating
Eye irritation, rabbit	Not irritating
Repeated dose, oral	No negative effects
Repeated dose, inhalative	No irreversible changes and no indication of silicosis
Gentoxicity, in vitro	No evidence of mutagenic effects
Gentoxicity, in vivo	No evidence of mutagenic effects
Carcinogenicity	No negative effects
Toxicity to reproduction	No negative effects
Human experience	Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product

Hydrated Silica	
Acute toxicity	
Oral toxicity, LD50, rat	>5110 mg/kg
Dermal toxicity, LD50, rat	>5000 mg/kg
Inhalation toxicity, LC50, rat, 4hr	>0.139 g/l
Subacute to Chronic Toxicity	
Chronic oral toxicity	No negative effects
Chronic inhalation toxicity	No irreversible effects. No symptoms of silicosis
Teratogenicity	No negative effects
Carcinogenicity	No negative effects
Fertility	No negative effects

Fragrance Blend	**0.1% to less than 0.3%**

Specific experimental toxicological data have not been determined.
Classified as under 99/45/EC as:

Xi Irritant (R36 irritating to eyes)

Contains:

0.1% trans-3-Phenyl-2-propen-1-ol May cause an allergic reaction

12. Ecological information

Summary.
This product has a high pH which may cause damage to ecosystems
Some inorganic raw materials in this product are highly reactive, and may cause damage to ecosystems. They are expected to degrade rapidly to materials widely found naturally
Some inorganic raw materials in this product are naturally found in the environment
Most of the organic compounds in this product are expected to biodegrade naturally

13. Disposal Considerations

Dispose of in accordance with locally valid waste disposal regulations.

14. Transport Information

U.N. Number:	UN 3215
Proper Shipping Name	PERSULPHATES INORGANIC, N.O.S. (CONTAINS POTASSIUM PERSULPHATE, AMMONIUM PERSULPHATE)
Class:	CLASS 5.1
Packing group:	PG III
MFAG Table	700
EmS No:	5.1-06

15. Regulatory Information

Chemical Safety Assessment	Not carried out
Label data according to 99/45/EC	Not required under Article 1, paragraph 5c of 99/45/EC (cosmetic product as defined in Directive 76/768/EEC in the finished state, intended for the final user)

16. Other Information

This information is provided without warranty either expressed or implied, but it is believed to be accurate and is offered in good faith. No responsibility can be accepted for any accident or injury incurred through the misuse of this product.