SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER

of the mixture

None. Synonyms

58-23-0000001 SDS number **Product code** 93281 MX3 Issue date 04-27-2022

Version number 01

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

Identified uses Personal care product used for cosmetic effect.

Uses advised against None known 1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name Productos Capilares L'Oreal SA

Poligono Industrial de Villalonquejar - Calle López Bravo - 78 Apartado 517 **Address**

Burgos 09001

Spain

Telephone + 1 732 499 2745

e-mail nacorpeuropesdsreqeuest@loreal.com

1.4. Emergency telephone number

Emergency Phone + 34 947 258 300

Number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Oxidizing solids Category 3 H272 - May intensify fire; oxidizer.

Health hazards

Skin corrosion/irritation H314 - Causes severe skin burns Category 1C

and eye damage.

Serious eye damage/eye irritation H318 - Causes serious eye Category 1

damage.

Respiratory sensitization Category 1 H334 - May cause allergy or

asthma symptoms or breathing

difficulties if inhaled.

Skin sensitization H317 - May cause an allergic skin Category 1

reaction.

Specific target organ toxicity - single Category 3 respiratory tract irritation H335 - May cause respiratory

exposure

irritation

May intensify fire; oxidizer. Causes severe skin burns and eye damage. May cause irritation to the **Hazard summary**

respiratory system. Exposure to powder or dusts may be irritating to eyes, nose and throat. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: AMMONIUM PERSULFATE, CITRIC ACID, POTASSIUM PERSULFATE, SODIUM

METASILICATE, SODIUM SILICATE

Material name: MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER 93281 MX3 Version #: 01 Issue date: 04-27-2022

Hazard pictograms



Danger Signal word

Hazard statements

May intensify fire; oxidizer. H272

Causes severe skin burns and eye damage. H314

May cause an allergic skin reaction. H317 Causes serious eye damage. H318

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

May cause respiratory irritation. H335

Precautionary statements

Prevention

Keep out of reach of children. P102

Read label before use. P103

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Keep away from clothing and other combustible materials. P220

Do not breathe dust. P260

Wash thoroughly after handling. P264

Use only outdoors or in a well-ventilated area. P271

Contaminated work clothing should not be allowed out of the workplace. P272 Wear protective gloves/protective clothing/eye protection/face protection. P280

Wear respiratory protection. P284

Response

If medical advice is needed, have product container or label at hand. P101

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301 + P330 + P331

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P303 + P361 + P353

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor. P310

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364 In case of fire: Use appropriate media to extinguish. P370 + P378

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Store locked up. P405

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

76,55% of the mixture consists of component(s) of unknown acute hazards to the aquatic Supplemental label information

environment. 88,7% of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

Not a PBT or vPvB substance or mixture. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information

Classification:

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
POTASSIUM PERSULF	ATE	31	7727-21-1 231-781-8	01-2119495676-19	016-061-00-1	
Classification:			Tox. 4;H302, Skin Irı H334, STOT SE 3;H	rit. 2;H315, Skin Sens. 1;H3 335	17, Eye Irrit.	
SODIUM METASILICAT	E	8	6834-92-0 229-912-9	01-2119449811-37	014-010-00-8	
Classification:	Met. Corr. 1;H2 SE 3;H335	90, Acu	te Tox. 4;H302, Skin	Corr. 1B;H314, Eye Dam. 1	;H318, STOT	
SODIUM SILICATE		6,75	1344-09-8 215-687-4	01-2119448725-31	-	

Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335

Material name: MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER 93281 MX3 Version #: 01 Issue date: 04-27-2022

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
AMMONIUM PERSULF	ATE	5,4	7727-54-0 231-786-5	01-2119495973-19	016-060-00-6	
Classification:	Ox. Sol. 3;H272, Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Acute Tox. 4;H332, Resp. Sens. 1;H334, STOT SE 3;H335					
CITRIC ACID		3,25	5949-29-1 201-069-1	01-2119457026-42	607-750-00-3	
Classification:	Eye Irrit. 2;H31	19, STO	Г SE 3;H335			

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Take off all contaminated clothing immediately. Contact with combustible material may cause fire. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact

If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing.

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

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

May intensify fire; oxidizer. Contact with combustible material may cause fire.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk. Use water spray to cool unopened containers.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Wear appropriate protective equipment and clothing during clean-up. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Provide appropriate exhaust ventilation at places where dust is formed. Take any precaution to avoid mixing with combustibles. Keep away from clothing and other combustible materials. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Spain. Occupational Expos Components	ure Limits Type	Value	Form		
AMMONIUM PERSULFATE (CAS 7727-54-0)	TWA	0,1 mg/m3			
KAOLIN (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.		
MAGNESIUM OXIDE (CAS 1309-48-4)	TWA	10 mg/m3	Dust and fume.		
MINERAL OIL (CAS 8042-47-5)	STEL	10 mg/m3	Mist.		
	TWA	5 mg/m3	Mist.		
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0,1 mg/m3			
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3			
logical limit values	values No biological exposure limits noted for the ingredient(s).				
	E-Harristan dand manifesia managadama				

Biol

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

Not available.

(DNELs)

Material name: MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER 93281 MX3 Version #: 01 Issue date: 04-27-2022

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

Eye/face protection Applicable for industrial settings only. Chemical respirator with organic vapor cartridge, full

facepiece, dust and mist filter.

Skin protection

Applicable for industrial settings only. Wear appropriate chemical resistant gloves. Frequent - Hand protection

change is advisable.

- Other Applicable for industrial settings only. Wear appropriate chemical resistant clothing.

Respiratory protection Applicable for industrial settings only. Chemical respirator with organic vapor cartridge, full

facepiece, dust and mist filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Keep from contact with clothing and other combustible materials. Remove and wash contaminated Hygiene measures

clothing promptly. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be

allowed out of the workplace.

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid. Powder. **Form** Color Light pink. Characteristic. Odor Odor threshold Not available. Not applicable. Ha Melting point/freezing point Not available. Initial boiling point and boiling Not applicable.

range

Not applicable. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Vapor pressure Vapor density Not available Not available. Relative density

Solubility(ies)

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.

Oxidizing properties May intensify fire; oxidizer.

9.2. Other information

pH in aqueous solution 9,6 - 10,2

SECTION 10: Stability and reactivity

10.1. Reactivity Keep away from combustible material. Greatly increases the burning rate of combustible materials.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

10.5. Incompatible materials Combustible material. Reducing agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contactCauses serious eye damage. **Ingestion**Causes digestive tract burns.

MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. May cause respiratory irritation. Difficulty in breathing.

11.1. Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

Acute

Inhalation

Dust

ATEmix 38,54 mg/l

Oral

ATEmix 2043 mg/kg

Components Species Test Results

AMMONIUM PERSULFATE (CAS 7727-54-0)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg bw OECD 402

> 2000 mg/kg

Inhalation

LC50 Rat > 2,95 mg/l, 4 h EPA OPP 81-3

Oral

LD50 Rat 700 mg/kg bw OECD 401

CITRIC ACID (CAS 5949-29-1)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Mouse 5400 mg/kg

Material name: MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER 93281 MX3 Version #: 01 Issue date: 04-27-2022

Test Results Components **Species** Rat 6730 mg/kg POTASSIUM PERSULFATE (CAS 7727-21-1) **Acute Dermal** LD50 Rabbit > 10000 mg/kg Inhalation LC50 Rat > 42,9 mg/l, 1 h Oral LD50 Rat 1130 mg/kg OECD 401 SODIUM METASILICATE (CAS 6834-92-0) Acute **Dermal** LD50 Rat > 5000 mg/kg Based on test data for structurally similar materials. Inhalation LC50 Rat > 2,06 mg/l, 4.4 h Based on test data for structurally similar materials. Oral LD50 Rat 1152 mg/kg SODIUM SILICATE (CAS 1344-09-8) **Acute** Dermal > 5000 mg/kg bw EPA OPPTS 870.1200 LD50 Rabbit Inhalation LC50 Rat > 2,06 mg/L air, 4.4 h EPA OPPTS 870.1300 Oral LD50 3400 mg/kg bw OECD 401 Rat Causes severe skin burns and eye damage. Skin corrosion/irritation Irritation Corrosion - Skin SODIUM METASILICATE **OECD 404** Result: Corrosive Species: Rabbit AMMONIUM PERSULFATE **OECD 404** Result: Irritating Species: Rabbit SODIUM SILICATE **OECD 404** Result: Irritating Species: Rabbit CITRIC ACID **OECD 404** Result: Slightly Irritating Species: Rabbit POTASSIUM PERSULFATE Result: Irritating Species: Human Serious eye damage/eye Causes serious eye damage. irritation **Irritation Corrosion - Eye** SODIUM METASILICATE **IRE** Result: Corrosive Species: In vitro AMMONIUM PERSULFATE **OECD 405** Result: Irritating Species: Rabbit OECD 405 CITRIC ACID Result: Irritating Species: Rabbit SODIUM SILICATE Result: Corrosive Species: Rabbit POTASSIUM PERSULFATE Result: Irritating

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Species: Human

Respiratory sensitization

AMMONIUM PERSULFATE Result: Sensitizing

Species: Human Result: Sensitizing Species: Human

Skin sensitization May cause an allergic skin reaction.

Sensitization

POTASSIUM PERSULFATE

AMMONIUM PERSULFATE OECD 406

Result: Sensitizing Species: Guinea pig

SODIUM SILICATE OECD 429

Result: Not Sensitizing

Species: Mouse

POTASSIUM PERSULFATE OECD 429

Result: Sensitizing Species: Mouse

Skin sensitization

CITRIC ACID OECD 406

Result: Not Sensitizing Species: Guinea pig

SODIUM METASILICATE OECD 429

Result: Not Sensitizing

Species: Mouse

POTASSIUM PERSULFATE OECD 429
Result: Sensitizing

Species: Guinea pig

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Mutagenicity

CITRIC ACID Result: In vitro and in vivo tests did not show mutagenic

ffects.

SODIUM METASILICATE Result: In vitro and in vivo tests did not show mutagenic

effects.

SODIUM SILICATE Result: In vitro and in vivo tests did not show mutagenic

effects.

AMMONIUM PERSULFATE Result: In vitro tests did not show mutagenic effects
POTASSIUM PERSULFATE Result: In vitro tests did not show mutagenic effects

Carcinogenicity Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the

classification is not possible.

Reproductive toxicityDue to partial or complete lack of data the classification is not possible.

Developmental effects

SODIUM SILICATE

SODIUM METASILICATE > 200 mg/kg bw/d

Result: NOAEL Species: Mouse > 200 mg/kg bw/d Result: NOAEL

Species: Rat
AMMONIUM PERSULFATE > 250 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

> 295 mg/kg bw/d, No effects on development Result: NOAEL

Species: F

Species: Rat

Reproductivity

CITRIC ACID

SODIUM METASILICATE > 159 mg/kg bw/d

Result: NOAEL Species: Rat

SODIUM SILICATE > 159 mg/kg bw/d, Oral

Result: NOAEL Species: Rat

AMMONIUM PERSULFATE > 250 mg/kg bw/d OECD 421

Result: NOAEL Species: Rat

CITRIC ACID > 2500 mg/kg bw/d, No effects on fertility

Result: NOAEL Species: Rat

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

SODIUM METASILICATE Result: Irritating SODIUM SILICATE Result: Irritating

Specific target organ toxicity - single exposure

POTASSIUM PERSULFATE R

Result: Irritating Species: Human

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

SODIUM METASILICATE > 227 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d 10,3 mg/m³, Inhalation

AMMONIUM PERSULFATE 10,3 mg/m³, Inhalation Result: NOAFC

Result: NOAEC Species: Rat Test Duration: 90 d

POTASSIUM PERSULFATE 131,5 mg/kg bw/d OECD 407

Result: NOAEL Species: Rat Test Duration: 28 d

SODIUM SILICATE 2400 mg/kg bw/d OECD 407

Result: NOAEL Species: Rat Test Duration: 28 d 4000 mg/kg bw/d, Oral Result: NOAEL Species: Rat

Test Duration: 10 d
AMMONIUM PERSULFATE 41,1 mg/kg bw/d OECD 407, Oral

Result: NOAEL Species: Rat Test Duration: 28 d

Aspiration hazardDue to partial or complete lack of data the classification is not possible.

Mixture versus substance

CITRIC ACID

information

No information available.

Other information May cause allergic respiratory and skin reactions. The reference to any animal testing for

individual constituents mentioned in this document is based on public, third-party data.

SECTION 12: Ecological information

12.1. ToxicityBased on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Components Species Test Results

AMMONIUM PERSULFATE (CAS 7727-54-0)

Aquatic
Acute
Algae
Crustacea

AlgaeEC50Pseudokirchneriella subcapitata83,7 mg/l, 72 hCrustaceaEC50Daphnia magna120 mg/l, 48 hFishLC50Oncorhynchus mykiss76 mg/l, 96 hOtherEC10Pseudomonas putida36 mg/l, 18 h

Chronic

Algae NOEC Desmodesmus subspicatus 32 mg/l, 72 h OECD 201

CITRIC ACID (CAS 5949-29-1)

Aquatic

Acute

AlgaeLOECMicrocystis aeruginosa80 mg/l, 7 dCrustaceaEC50Daphnia magna1535 mg/l, 24 hFishLC50Leuciscus idus440 - 760 mg/l, 96 h

Pseudomonas putida

SODIUM METASILICATE (CAS 6834-92-0)

NOAEC

Aquatic

Acute

Other

Algae EC50 Pseudokirchneriella subcapitata > 207 mg/l, 72 h DIN 38412, Pt. 9

18 h

 Crustacea
 EC50
 Daphnia magna
 > 1700 mg/l, 48 h EU C.2

 Fish
 LC50
 Danio rerio
 > 210 mg/l, 96 h OECD 203

Material name: MATRIX LIGHT MASTER OPEN AIR PRE-BONDED BLEACH POWDER

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 Components
 Species
 Test Results

 Other
 EC50
 Activated sludge of a predominantly domestic sewage
 100 mg/l, 3 h OECD 209

SODIUM SILICATE (CAS 1344-09-8)

Aquatic Acute

Algae EC50 Desmodesmus subspicatus > 345,4 mg/l, 72 h DIN 38412 Part 9

 Crustacea
 EC50
 Daphnia magna
 1700 mg/l, 48 h EU C.2

 Fish
 LC50
 Danio rerio
 1108 mg/l, 96 h OECD 203

Other EC0 Pseudomonas putida 3454 mg/l, 30 min DIN 38412 Part 27

12.2. Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

POTASSIUM PERSULFATE Result: Not expected to bioaccumulate

Percent degradation (Aerobic biodegradation-ready)

CITRIC ACID 97 %

Result: Readily Biodegradable

Test Duration: 28 d

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

CITRIC ACID -1,64

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB Not a PBT or vPvB

assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

12.7. Additional information The reference to any animal testing for individual constituents mentioned in this document is

based on public, third-party data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

FINISHED GOODS

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE), Limited Quantity

14.3. Transport hazard class(es)

Class 5.1 Subsidiary risk 8

Label(s) Limited Quantity

Hazard No. (ADR) 58
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards No

14.6. Special precautions Not available.

for user

LTD QTY Net Inner Capacity 5.0 kg

BULK

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE)

14.3. Transport hazard class(es)

14.5. Environmental hazards No.

Class 5.1
Subsidiary risk 8
Label(s) 5.1+8
Hazard No. (ADR) 58
Tunnel restriction code E
14.4. Packing group III

14.6. Special precautions Not available.

for user

IATA

FINISHED GOODS

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE)

14.3. Transport hazard class(es)

Class 5.1 Subsidiary risk 8

Label(s) Class 5.1, Class 8, Limited Quantity

14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 5C

14.6. Special precautions Not available.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

LTD QTY Net Inner Capacity 1.0 kg

BULK

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE)

14.3. Transport hazard class(es)

Class 5.1
Subsidiary risk 8
14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 5C

14.6. Special precautions Not available.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

FINISHED GOODS

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE), Limited Quantity

14.3. Transport hazard class(es)

Class 5.1 Subsidiary risk 8

Label(s) Limited Quantity

14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.
EmS F-A, S-Q

14.6. Special precautions

for user

Not available.

LTD QTY Net Inner Capacity 5.0 kg

BULK

14.1. UN number UN3085

14.2. UN proper shipping OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM PERSULFATE, SODIUM

name METASILICATE)

14.3. Transport hazard class(es)

Class 5.1
Subsidiary risk 8
14.4. Packing group III
14.5. Environmental hazards

Marine pollutantNo.EmSF-A, S-Q14.6. Special precautionsNot available.

for user

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended SODIUM METASILICATE (CAS 6834-92-0)

SODIUM SILICATE (CAS 1344-09-8)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

AMMONIUM PERSULFATE (CAS 7727-54-0) POTASSIUM PERSULFATE (CAS 7727-21-1)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

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. H318 Causes serious eye damage. 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.

Revision information

Training information Follow training instructions when handling this material.

None.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

This document is communicated even though this product does not legally require an SDS. The purpose of this information is to allow the operators concerned to take, if necessary, the measures they deem appropriate, with regard to the storage, handling and transport of products, in order to guarantee the protection of their employees.

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