

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

SECTION 1: Identification

1.1 Product identifier

Trade name **Dyotics Brow Henna - Ash Brown**

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

Relevant identified uses Professional use

1.3 Details of the supplier of the safety data sheet

The Regulatory Company
Boomsluiterskade 216
2511 VJ Den Haag
Netherlands

Telephone: +31 643828286
e-mail: info@theregulatorycompany.com
Website: www.theregulatorycompany.com

e-mail (competent person) info@theregulatorycompany.com

1.4 Emergency telephone number

Emergency information service +31 643828286
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.11	acute toxicity (inhal.)	2	Acute Tox. 2	H330
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.5	germ cell mutagenicity	2	Muta. 2	H341
A.8	specific target organ toxicity - single exposure	1	STOT SE 1	H370
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.7	flammable solid	2	Flam. Sol. 2	H228
B.14	oxidizing solid	2	Ox. Sol. 2	H272

Code	Supplemental hazard information
HNOC008	very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic)

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- signal word danger

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

- pictograms

GHS02, GHS03,
GHS05, GHS06,
GHS07, GHS08



- hazard statements

H228	Flammable solid.
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H370	Causes damage to organs (kidney, muscular system).
H373	May cause damage to organs (kidney) through prolonged or repeated exposure.

- precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat.
P220	Keep/store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P320	Specific treatment is urgent (see on this label).
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

1,4-phenylenediamine; 4-aminophenol; Disodium carbonate, compound with hydrogen peroxide (2:3); 1-naphthol; 5-amino-o-cresol; 4-chlororesorcinol

2.3 Other hazards

Of no significance.

Hazards not otherwise classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

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

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

The product does not contain any (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the substance and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Disodium carbonate, compound with hydrogen peroxide (2:3)	CAS No 15630-89-4	25 - < 50	Acute Tox. 4 / H302 Eye Dam. 1 / H318 Ox. Sol. 2 / H272 HNOC002 HNOC009		
p-phenylenediamine	CAS No 106-50-3	10 - < 25	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 STOT SE 1 / H370 HNOC008		
2-hydroxy-1,4-naphthoquinone	CAS No 83-72-7	5 - < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335		
Citric acid	CAS No 77-92-9 5949-29-1	5 - < 10	Eye Irrit. 2 / H319 HNOC002		
silicon dioxide (amorphous)	CAS No 112945-52-5 7631-86-9	5 - < 10	Acute Tox. 3 / H331		
Sodium dodecyl sulphate	CAS No 151-21-3	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 Flam. Sol. 2 / H228 HNOC002 HNOC010		
4-aminophenol	CAS No 123-30-8	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Sens. 1 / H317 Muta. 2 / H341 STOT RE 2 / H373 HNOC008		
1-naphthol	CAS No 90-15-3	1 - < 2.5	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1A / H317 STOT SE 2 / H371 STOT SE 3 / H335 HNOC008		
5-amino-o-cresol	CAS No 2835-95-2	1 - < 2.5	Skin Sens. 1A / H317 HNOC001 HNOC009		


Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
4-chlororesorcinol	CAS No 95-88-5	1 - < 2.5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 HNOC002 HNOC009		

Remarks

For full text of H-phrases: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Get medical advice/attention.

Following skin contact

Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water; Foam; Dry extinguishing powder; ABC-powder

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential. Oxidizing property.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases. Wear personal protective equipment/face protection.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. Take up mechanically.

Advices on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- handling of incompatible substances or mixtures

- keep away from

Organic absorbing material, Pulp/paper

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- explosive atmospheres

Removal of dust deposits.

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Keep reduction valves/valves and fittings free from oil and grease.

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

- incompatible substances or mixtures

Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Keep away from alkalis, oxidising substances, acids.

Control of the effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

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

- ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
US	particulates not otherwise classified (PNOC)		PEL	1,766	15			i, dust	29 CFR 1910.1000
US	particulates not otherwise classified (PNOC)		PEL	529.5	5			partml, r, dust	29 CFR 1910.1000
US	p-phenylenediamine	106-50-3	TLV®		0.1				ACGIH® 2018
US	p-phenylenediamine	106-50-3	PEL		0.1				29 CFR 1910.1000

Notation

dust	as dust
i	inhalable fraction
partml	particles/ml
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
p-phenylenediamine	106-50-3	DNEL	0.23 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
p-phenylenediamine	106-50-3	DNEL	0.32 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
p-phenylenediamine	106-50-3	DNEL	1.83 µg/cm ²	human, dermal	worker (industry)	acute - local effects
p-phenylenediamine	106-50-3	DNEL	0.06 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
p-phenylenediamine	106-50-3	DNEL	0.16 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
p-phenylenediamine	106-50-3	DNEL	0.458 µg/cm ²	human, dermal	consumer (private households)	acute - local effects
p-phenylenediamine	106-50-3	DNEL	0.16 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
silicon dioxide (amorphous)	112945-52-5 7631-86-9	DNEL	4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium dodecyl sulphate	151-21-3	DNEL	285 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium dodecyl sulphate	151-21-3	DNEL	4,060 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sodium dodecyl sulphate	151-21-3	DNEL	85 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Sodium dodecyl sulphate	151-21-3	DNEL	2,440 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Sodium dodecyl sulphate	151-21-3	DNEL	24 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
4-aminophenol	123-30-8	DNEL	2.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
4-aminophenol	123-30-8	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-naphthol	90-15-3	DNEL	4.58 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-naphthol	90-15-3	DNEL	2.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
5-amino-o-cresol	2835-95-2	DNEL	6.601 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
5-amino-o-cresol	2835-95-2	DNEL	3.226 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
5-amino-o-cresol	2835-95-2	DNEL	2.66 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
5-amino-o-cresol	2835-95-2	DNEL	2.66 µg/cm ²	human, dermal	worker (industry)	acute - local effects
5-amino-o-cresol	2835-95-2	DNEL	1.647 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
5-amino-o-cresol	2835-95-2	DNEL	1.613 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
5-amino-o-cresol	2835-95-2	DNEL	1.33 µg/cm ²	human, dermal	consumer (private households)	chronic - local effects
5-amino-o-cresol	2835-95-2	DNEL	1.33 µg/cm ²	human, dermal	consumer (private households)	acute - local effects

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
5-amino-o-cresol	2835-95-2	DNEL	0.9 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
4-chlororesorcinol	95-88-5	DNEL	4.996 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
4-chlororesorcinol	95-88-5	DNEL	5.695 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4-chlororesorcinol	95-88-5	DNEL	1.232 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
4-chlororesorcinol	95-88-5	DNEL	1.417 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
4-chlororesorcinol	95-88-5	DNEL	2.833 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	PNEC	0.035 mg/l	aquatic organisms	freshwater	short-term (single instance)
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	PNEC	0.035 mg/l	aquatic organisms	marine water	short-term (single instance)
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	PNEC	16.24 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0.334 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0.002 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
p-phenylenediamine	106-50-3	PNEC	0 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citric acid	77-92-9 5949-29-1	PNEC	33.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Sodium dodecyl sulphate	151-21-3	PNEC	0.176 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sodium dodecyl sulphate	151-21-3	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
Sodium dodecyl sulphate	151-21-3	PNEC	0.055 mg/l	aquatic organisms	water	intermittent release
Sodium dodecyl sulphate	151-21-3	PNEC	1.35 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sodium dodecyl sulphate	151-21-3	PNEC	6.97 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sodium dodecyl sulphate	151-21-3	PNEC	0.697 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sodium dodecyl sulphate	151-21-3	PNEC	1.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0.005 mg/l	aquatic organisms	freshwater	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0.265 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0.019 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-aminophenol	123-30-8	PNEC	0.001 mg/kg	terrestrial organisms	soil	short-term (single instance)
1-naphthol	90-15-3	PNEC	0.33 µg/l	aquatic organisms	freshwater	short-term (single instance)
1-naphthol	90-15-3	PNEC	0.033 µg/l	aquatic organisms	marine water	short-term (single instance)
1-naphthol	90-15-3	PNEC	1.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-naphthol	90-15-3	PNEC	16.6 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-naphthol	90-15-3	PNEC	1.66 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-naphthol	90-15-3	PNEC	3.11 µg/kg	terrestrial organisms	soil	short-term (single instance)
5-amino-o-cresol	2835-95-2	PNEC	24 µg/l	aquatic organisms	freshwater	short-term (single instance)
5-amino-o-cresol	2835-95-2	PNEC	2.4 µg/l	aquatic organisms	marine water	short-term (single instance)
5-amino-o-cresol	2835-95-2	PNEC	1.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
5-amino-o-cresol	2835-95-2	PNEC	0.129 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
5-amino-o-cresol	2835-95-2	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
5-amino-o-cresol	2835-95-2	PNEC	0.012 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection

Protective clothing - protection against liquid chemicals.

- hand protection



The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- breakthrough times of the glove material

>480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	solid (powder)
Color	acc. to product description
Odor	characteristic

Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not applicable

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Evaporation rate	not determined
Flammability (solid, gas)	flammable solid in accordance with GHS criteria
Explosion limits of dust clouds	not determined
Vapor pressure	not determined
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	oxidizer

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Oxidizing property.

If heated:

Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

Oxidizers. Combustible materials.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed. Fatal if inhaled.

- acute toxicity estimate (ATE)

Exposure route	ATE
Oral	626.9 mg/kg
Inhalation: vapor	7.667 mg/l/4h
Inhalation: dust/mist	0.3916 mg/l/4h

- acute toxicity of components of the mixture

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	oral	1,034 mg/kg
p-phenylenediamine	106-50-3	oral	100 mg/kg
p-phenylenediamine	106-50-3	dermal	300 mg/kg
p-phenylenediamine	106-50-3	inhalation: vapor	0.92 mg/l/4h
p-phenylenediamine	106-50-3	inhalation: dust/mist	0.05 mg/l/4h
silicon dioxide (amorphous)	112945-52-5 7631-86-9	inhalation: dust/mist	0.69 mg/l/4h
Sodium dodecyl sulphate	151-21-3	oral	1,200 mg/kg
Sodium dodecyl sulphate	151-21-3	inhalation: dust/mist	1.5 mg/l/4h
4-aminophenol	123-30-8	oral	671 mg/kg
4-aminophenol	123-30-8	inhalation: dust/mist	1.5 mg/l/4h
1-naphthol	90-15-3	oral	1,000 mg/kg
1-naphthol	90-15-3	dermal	≥880 mg/kg
4-chlororesorcinol	95-88-5	oral	369 mg/kg

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	oral	LD50	1,034 mg/kg	rat
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	dermal	LD50	>2,000 mg/kg	rabbit
p-phenylenediamine	106-50-3	inhalation: vapor	LC50	0.92 mg/l/4h	rat

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Citric acid	77-92-9 5949-29-1	oral	LD50	5,400 mg/kg	mouse
Citric acid	77-92-9 5949-29-1	dermal	LD50	>2,000 mg/kg	rat
silicon dioxide (amorphous)	112945-52-5 7631-86-9	oral	LD50	>5,000 mg/kg	rat
silicon dioxide (amorphous)	112945-52-5 7631-86-9	inhalation: dust/mist	LC50	>0.69 mg/l/4h	rat
Sodium dodecyl sulphate	151-21-3	oral	LD50	1,200 mg/kg	rat
Sodium dodecyl sulphate	151-21-3	dermal	LD50	>2,000 mg/kg	rat
4-aminophenol	123-30-8	oral	LD50	671 mg/kg	rat
4-aminophenol	123-30-8	dermal	LD50	>8,000 mg/kg	rabbit
1-naphthol	90-15-3	oral	LD50	>1,000 – <2,000 mg/kg	mouse
1-naphthol	90-15-3	dermal	LD50	≥880 mg/kg	rabbit
5-amino-o-cresol	2835-95-2	oral	LD50	3,600 mg/kg	rat
4-chlororesorcinol	95-88-5	oral	LD50	369 mg/kg	rat
4-chlororesorcinol	95-88-5	dermal	LD50	3,438 mg/kg	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Number
silicon dioxide (amorphous)	7631-86-9	3	
1,4-phenylenediamine	106-50-3	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Causes damage to organs (kidney, muscular system).

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Hazard category	Target organ	Exposure route
1	kidney	if exposed
1	muscular system	if exposed

Specific target organ toxicity - repeated exposure

May cause damage to organs (kidney) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	kidney	if exposed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	LC50	70.7 mg/l	fish	48 h
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	EC50	4.9 mg/l	aquatic invertebrates	48 h
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	NOEC	2 mg/l	aquatic invertebrates	48 h
p-phenylenediamine	106-50-3	LC50	3.9 mg/l	fish	96 h
Citric acid	77-92-9 5949-29-1	LC50	440 mg/l	fish	48 h
Sodium dodecyl sulphate	151-21-3	LC50	29 mg/l	fish	96 h
Sodium dodecyl sulphate	151-21-3	ErC50	>120 mg/l	algae	72 h
Sodium dodecyl sulphate	151-21-3	EC50	53 mg/l	algae	72 h
Sodium dodecyl sulphate	151-21-3	NOEC	30 mg/l	algae	72 h
4-aminophenol	123-30-8	LC50	0.82 mg/l	fish	96 h
4-aminophenol	123-30-8	EC50	0.089 mg/l	aquatic invertebrates	48 h
4-aminophenol	123-30-8	ErC50	0.25 mg/l	algae	72 h
4-aminophenol	123-30-8	NOEC	0.526 mg/l	fish	96 h
4-aminophenol	123-30-8	LOEC	0.809 mg/l	fish	96 h
4-aminophenol	123-30-8	growth rate (ErCx) 10%	0.083 mg/l	algae	72 h
4-aminophenol	123-30-8	growth (EbCx) 10%	0.015 mg/l	algae	72 h

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
1-naphthol	90-15-3	LC50	0.33 mg/l	fish	96 h
1-naphthol	90-15-3	EC50	>6.51 mg/l	aquatic invertebrates	24 h
1-naphthol	90-15-3	ErC50	>2.18 mg/l	algae	72 h
1-naphthol	90-15-3	NOEC	1.68 mg/l	aquatic invertebrates	48 h
1-naphthol	90-15-3	growth rate (ErCx) 10%	>2.18 mg/l	algae	72 h
5-amino-o-cresol	2835-95-2	LC50	25 mg/l	fish	96 h
5-amino-o-cresol	2835-95-2	EC50	2.7 mg/l	aquatic invertebrates	24 h
5-amino-o-cresol	2835-95-2	ErC50	41 mg/l	algae	72 h
4-chlororesorcinol	95-88-5	LC50	64.1 mg/l	fish	96 h
4-chlororesorcinol	95-88-5	EC50	1.38 mg/l	aquatic invertebrates	24 h
4-chlororesorcinol	95-88-5	ErC50	15.7 mg/l	algae	72 h
4-chlororesorcinol	95-88-5	NOEC	3.01 mg/l	algae	72 h
4-chlororesorcinol	95-88-5	growth (EbCx) 10%	1.25 mg/l	aquatic invertebrates	24 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
p-phenylenediamine	106-50-3	EC50	13.4 mg/l	microorganisms	3 h
p-phenylenediamine	106-50-3	NOEC	5.01 µg/l	aquatic invertebrates	21 d
p-phenylenediamine	106-50-3	growth (EbCx) 10%	3.34 mg/l	microorganisms	3 h
Citric acid	77-92-9 5949-29-1	LC50	1,535 mg/l	aquatic invertebrates	24 h
Sodium dodecyl sulphate	151-21-3	EC50	135 mg/l	microorganisms	3 h
Sodium dodecyl sulphate	151-21-3	NOEC	1.357 mg/l	fish	42 d
4-aminophenol	123-30-8	LC50	0.57 mg/l	fish	41 d
4-aminophenol	123-30-8	EC50	>0.171 mg/l	aquatic invertebrates	21 d
4-aminophenol	123-30-8	NOEC	0.049 mg/l	fish	41 d
4-aminophenol	123-30-8	growth (EbCx) 10%	2.65 mg/l	microorganisms	3 h
5-amino-o-cresol	2835-95-2	EC50	0.52 mg/l	aquatic invertebrates	21 d
5-amino-o-cresol	2835-95-2	NOEC	0.24 mg/l	aquatic invertebrates	21 d
5-amino-o-cresol	2835-95-2	LOEC	0.78 mg/l	aquatic invertebrates	21 d
5-amino-o-cresol	2835-95-2	growth (EbCx) 10%	0.004 mg/l	aquatic invertebrates	21 d
4-chlororesorcinol	95-88-5	EC50	100 mg/l	fish	7 d

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
4-chlororesorcinol	95-88-5	NOEC	1 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number	3097
14.2 UN proper shipping name	Flammable solid, oxidizing, n.o.s.
Technical name (Hazardous ingredients)	Disodium carbonate, compound with hydrogen peroxide (2:3), 1,4-phenylenediamine
14.3 Transport hazard class(es)	
Class	4.1 (flammable solids, self-reactive substances and solid desensitized explosives)
Subsidiary risk(s)	5.1 (oxidizing properties)
14.4 Packing group	III (substance presenting low danger)
14.5 Environmental hazards	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	1,4-phenylenediamine
14.6 Special precautions for user	
There is no additional information.	

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0


Date of compilation: 2019-02-12

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code


No data available.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

Index number	3097
Proper shipping name	Flammable solid, oxidizing, n.o.s.
- particulars in the shipper's declaration	UN3097, Flammable solid, oxidizing, n.o.s., (contains: Disodium carbonate, compound with hydrogen peroxide (2:3), 1,4-phenylenediamine), 4.1 (5.1), III, environmentally hazardous
- reportable quantity (RQ)	41,667 lbs (18,917 kg) (1,4-phenylenediamine)
Class	4.1
Subsidiary risk(s)	5.1
Packing group	III
Danger label(s)	4.1+5.1, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	131, T1, TP33
ERG No	140

International Maritime Dangerous Goods Code (IMDG)

UN number	3097
Proper shipping name	FLAMMABLE SOLID, OXIDIZING, N.O.S.
Class	4.1
Subsidiary risk(s)	5.1
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	4.1+5.1, fish and tree
	
Special provisions (SP)	76, 274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	0
EmS	F-A, S-Q
Stowage category	-

International Civil Aviation Organization (ICAO-IATA/DGR)

Carriage prohibited.

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name acc. to inventory	CAS No	Remarks	Effective date
p-phenylenediamine	106-50-3		1987-01-01

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
1,4-phenylenediamine	106-50-3		3	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

Clean Air Act

none of the ingredients are listed

New Jersey Worker and Community Right to Know Act

Right to Know Hazardous Substance List			
Name acc. to inventory	CAS No	Remarks	Classifications
p-phenylenediamine	106-50-3		

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	2	materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air
Personal protection	-	

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	4	material that, under emergency conditions, can be lethal
Instability	0	material that is normally stable, even under fire conditions
Special hazard	OX	oxidizer that causes a severe increase in the burning rate of combustible materials with which it comes into contact

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
ACGIH® 2018	From ACGIH®, 2018 TLVs® and BEIs® Book. Copyright 2018. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Muta.	Germ cell mutagenicity
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Abbr.	Descriptions of used abbreviations
OSHA	Occupational Safety and Health Administration (United States)
Ox. Sol.	Oxidizing solid
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H228	Flammable solid.
H272	May intensify fire; oxidizer.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Dyotics Brow Henna - Ash Brown

Version number: 1.0

Date of compilation: 2019-02-12

Code	Text
H370	Causes damage to organs (kidney, muscular system).
H371	May cause damage to organs (kidney, muscular system).
H373	May cause damage to organs (kidney) through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.