

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Jones Light Green Staining Kit

Version 1.0

Revision Date 10-09-2012

Print Date 05-20-2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name : Jones Light Green Staining Kit
Mat.-No./ Genisys-No. : 05279356001

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

Recommended restrictions on use : For professional users only.

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Limited
Charles Avenue
Burgess Hill
RH15 9RY West Sussex

E-mail address : -
Telephone : +44 1444 256000
Telefax : +44 1444 256239

Responsible Department :
In case of emergencies: : Health, Safety & +44 1444 256500 or +44
(Roche Diagnostics Ltd.) Environment 7802 260498
- +44 1444 256561 or +44
Product Safety / Vigilance 7710 391653
-

Toxicology 24Hr help-line: : NPIS: +44 844 892 0111
Health Advice 24Hr help-line: NHS Direct: +44 845 4647
NHS 24: +44 8454 242424

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.
Eye irritation, Category 2 H319: Causes serious eye irritation.
Skin sensitization, Category 1 H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.
Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Irritant R43: May cause sensitization by skin contact.
Harmful R22: Harmful if swallowed.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H314
H317
H411

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264

Wash skin thoroughly after handling.

P272

Contaminated work clothing should not be allowed out of the workplace.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363

Wash contaminated clothing before reuse.

P391

Collect spillage.

Storage:

P405

Store locked up.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH208 Contains: Gold chloride, hydrochloride, trihydrate May produce an allergic reaction.

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2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

Periodic Acid

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A

H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive

R35: Causes severe burns.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Silver A

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 2

H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
silver nitrate	7761-88-8 231-853-9	C; R34 O; R 8 N; R50-R53	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 2.5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Silver B

Classification (REGULATION (EC) No 1272/2008)

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Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Harmful

R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
methenamine	100-97-0 202-905-8	Xn; Xn; R43 F; F; R11	Flam. Sol. 2; H228 Skin Sens. 1; H317	>= 10 - < 20
borax decahydrate	1303-96-4 215-540-4	Repr.Cat.2; R60- R61	Acute Tox. 4; H312 Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 0.5 - < 8.5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Toner

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A

H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive

R35: Causes severe burns.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Gold chloride, hydrochloride, trihydrate	16961-25-4 240-948-4	C; C; R34 Xi; Xi; R43	Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 0.1 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Fixer

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

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Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Hematoxylin

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

Classification (67/548/EEC, 1999/45/EC)

Harmful

R22: Harmful if swallowed.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethane-1,2-diol	107-21-1 203-473-3	Xn; R22	Acute Tox. 4; H302	>= 25 - < 50
sodium iodate	7681-55-2 231-672-5	O; R 8	Ox. Sol. 2; H272 Acute Tox. 4; H302	< 10
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 1 - < 5
haematoxylin	517-28-2 208-237-3	Xn; Xn; R22- R36/37/38	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	< 10
aluminium sulphate	10043-01-3 233-135-0	Xi; Xi; R37/38-R41	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	< 5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Light Green Counterstain

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A

H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

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Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 1 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
Rinse mouth with water.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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Treat recovered material as described in the section "Disposal considerations".

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

8. Exposure controls/personal protection

Exposure Guidelines

Periodic Acid

Contains no substances with occupational exposure limit values.

Silver A

Contains no substances with occupational exposure limit values.

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Silver B

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
borax decahydrate	1303-96-4	TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

Toner

Contains no substances with occupational exposure limit values.

Fixer

Contains no substances with occupational exposure limit values.

Hematoxylin

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
ethane-1,2-diol	107-21-1	C	50 ppm 125 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

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Light Green Counterstain

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection : Protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
The suitability for a specific workplace should be discussed

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with the producers of the protective gloves.

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Periodic Acid

Appearance : liquid

Colour : colourless

pH : 1.7 - 1.9

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Water solubility : completely miscible

Partition coefficient: n-octanol/water : no data available

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Silver A

Appearance : liquid

Colour : colourless

pH : 5.4

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available

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Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

Silver B

Appearance	: liquid
Colour	: colourless
pH	: 9.6 - 9.9
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

Toner

Appearance	: liquid
Colour	: yellow
pH	: 2.0 - 3.0
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available

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Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
<i>Fixer</i>	
Appearance	: liquid
Colour	: colourless
Odour	: sulphurous
pH	: 6.77
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Hematoxylin</i>	
Appearance	: liquid
Colour	: violet
Odour	: vinegar-like
pH	: 2.3 - 2.6
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available

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Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
<i>Light Green Counterstain</i> Appearance	: liquid
Colour	: greenish-blue
Odour	: vinegar-like
pH	: 2.0 - 3.0
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

9.2 Other information

<i>Periodic Acid</i> Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>Silver A</i> Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>Silver B</i> Conductivity	: no data available
Oxidising potential	: no data available

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Surface tension : no data available

Toner

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Fixer

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Hematoxylin

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Light Green Counterstain

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:

Oxidizing agents

Reducing agents

Alkali metals

Acids

Bases

Ammonia

Alcohol

: Further information: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

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10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides
: no data available

11. Toxicological information

11.1 Information on toxicological effects

Periodic Acid

No ingredients are hazardous according to OSHA criteria.

Silver A

No ingredients are hazardous according to OSHA criteria.

Silver B

Components:

methenamine :

Acute oral toxicity : LD50 Oral: 9,200 mg/kg, rat
: LD50 Oral: 569 mg/kg, mouse
Acute inhalation toxicity : no data available
Acute dermal toxicity : LD50 Dermal: > 2,001 mg/kg, rat
Acute toxicity (other routes of administration) : no data available
Skin corrosion/irritation : rabbit, Result: No skin irritation, OECD Test Guideline 404
Serious eye damage/eye irritation : rabbit, Result: No eye irritation
Respiratory or skin sensitization : guinea pig, Result: May cause sensitization by skin contact.
Germ cell mutagenicity
Genotoxicity in vitro : Ames test, Result: negative
STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Aspiration toxicity : no data available
Further information : no data available

borax decahydrate :

Acute oral toxicity : LD50 Oral: 2,660 mg/kg, rat
: LD50 Oral: 2,000 mg/kg, mouse
Acute inhalation toxicity : no data available
Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg, rabbit
Acute toxicity (other routes of administration) : no data available

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administration)

Skin corrosion/irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : Result: Irritating to eyes., May cause irreversible eye damage.

Respiratory or skin sensitization : Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

Toner

No ingredients are hazardous according to OSHA criteria.

Fixer

No ingredients are hazardous according to OSHA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

Acute oral toxicity : LD50 Oral: 4,700 mg/kg, rat
: LD50 Oral: 5,500 mg/kg, mouse
: LD50 Oral: 5,500 mg/kg, dog
: LD50 Oral: 1,650 mg/kg, cat

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50 Dermal: > 10,000 mg/kg, rabbit

Acute toxicity (other routes of administration) : no data available

Further information : no data available

acetic acid :

Acute oral toxicity : LD50 Oral: 3,310 mg/kg, rat

Acute dermal toxicity : LD50 Dermal: 1016 µl/kg, rabbit

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Causes severe burns., Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin : Result: no data available

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sensitization

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

Further information : no data available

haematoxylin :

Acute oral toxicity : LD50 Oral: 400 mg/kg, rat

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Irritating to skin., May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : Result: Irritating to eyes., May cause irreversible eye damage.

Respiratory or skin sensitization : Result: no data available

STOT - single exposure : Exposure routes: Inhalation
Assessment: May cause respiratory irritation.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

sodium iodate :

Acute oral toxicity : LD50 Oral: 505 mg/kg, mouse

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Respiratory or skin sensitization : Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

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Aspiration toxicity : no data available

Further information : no data available

aluminium sulphate :

Acute oral toxicity : LD50: 6,207 mg/kg, mouse

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Irritating to skin., May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : Result: Risk of serious damage to eyes., May cause irreversible eye damage.

Respiratory or skin sensitization : Result: no data available

STOT - single exposure : Assessment: May cause respiratory irritation.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

Further information : no data available

Light Green Counterstain

Components:

acetic acid :

Acute oral toxicity : LD50 Oral: 3,310 mg/kg, rat

Acute dermal toxicity : LD50 Dermal: 1016 µl/kg, rabbit

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Causes severe burns., Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitization : Result: no data available

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Aspiration toxicity : no data available

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Further information : no data available

12. Ecological information

12.1 Toxicity

Periodic Acid

No ingredients are hazardous according to OHSA criteria.

Silver A

No ingredients are hazardous according to OHSA criteria.

Silver B

Components:

methenamine :

Toxicity to fish : LC50: 49,800 mg/l, 96 h, Pimephales promelas (fathead minnow), OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50: 36,000 mg/l, Daphnia magna (Water flea)

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

borax decahydrate :

Toxicity to fish : LC50: 630 mg/l, 72 h, Carassius auratus (goldfish)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 1,085 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : IC50: 158 mg/l, 96 h, Desmodesmus subspicatus (green algae)

Toxicity to bacteria : EC0: 15.8 mg/l, 16 h, Pseudomonas putida

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

Toner

No ingredients are hazardous according to OHSA criteria.

Fixer

No ingredients are hazardous according to OHSA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

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- Toxicity to fish : LC50: > 10,000 mg/l, *Leuciscus idus* (Golden orfe)
: LC50: > 5,000 mg/l, 24 h, *Carassius auratus* (goldfish), OECD Test Guideline 203
: LC50: > 18,500 mg/l, 4 d, *Oncorhynchus mykiss* (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates : LC50: > 10,000 mg/l, 48 h, *Daphnia magna* (Water flea), OECD Test Guideline 202
- Toxicity to algae : EC0: > 10,000 mg/l, 7 d, *Scenedesmus quadricauda* (Green algae)
- Toxicity to bacteria : EC0: > 10,000 mg/l, 16 h, *Pseudomonas putida*

Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.

- Other organisms relevant to the environment : no data available

acetic acid :

- Toxicity to fish : LC50: 410 mg/l, 48 h, *Leuciscus idus* (Golden orfe)
- Toxicity to daphnia and other aquatic invertebrates : EC50: 95 mg/l, 24 h, *Daphnia magna* (Water flea)
- Toxicity to algae : no data available
- Toxicity to bacteria : no data available

Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.

- Other organisms relevant to the environment : no data available

haematoxylin :

- Toxicity to fish : no data available
- Toxicity to daphnia and other aquatic invertebrates : no data available
- Toxicity to algae : no data available
- Toxicity to bacteria : no data available

Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.

- Other organisms relevant to the environment : no data available

sodium iodate :

- Toxicity to fish : LC50: 220 mg/l, 96 h, *Oncorhynchus mykiss* (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates : no data available
- Toxicity to algae : no data available
- Toxicity to bacteria : no data available

Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.

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Other organisms relevant to the environment : no data available

aluminium sulphate :

Toxicity to fish : 33.9 mg/l, 96 h, Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates : 38.2 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known eco-toxicological effects.

Chronic aquatic toxicity : This product has no known eco-toxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

Light Green Counterstain

Components:

acetic acid :

Toxicity to fish : LC50: 410 mg/l, 48 h, Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates : EC50: 95 mg/l, 24 h, Daphnia magna (Water flea)

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Periodic Acid

No ingredients are hazardous according to OSHA criteria.

Silver A

No ingredients are hazardous according to OSHA criteria.

Silver B

Components:

methenamine :

Biodegradability : 75 %, Result: Not readily biodegradable., Exposure time: 26 d, Concentration: 652 mg/l

borax decahydrate :

Biodegradability : no data available

Toner

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No ingredients are hazardous according to OHSA criteria.

Fixer

No ingredients are hazardous according to OHSA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

Biodegradability : 100 %, Exposure time: 28 d, OECD Test Guideline 302

acetic acid :

Biodegradability : 71 %, Exposure time: 5 d

haematoxylin :

Biodegradability : no data available

sodium iodate :

Biodegradability : no data available

aluminium sulphate :

Biodegradability : no data available

Light Green Counterstain

Components:

acetic acid :

Biodegradability : 71 %, Exposure time: 5 d

12.3 Bioaccumulative potential

Periodic Acid

No ingredients are hazardous according to OHSA criteria.

Silver A

No ingredients are hazardous according to OHSA criteria.

Silver B

Components:

methenamine :

Bioaccumulation : no data available

borax decahydrate :

Bioaccumulation : no data available

Toner

No ingredients are hazardous according to OHSA criteria.

Fixer

No ingredients are hazardous according to OHSA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

Bioaccumulation : no data available

acetic acid :

Bioaccumulation : no data available

haematoxylin :

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Bioaccumulation : no data available

sodium iodate :

Bioaccumulation : no data available

aluminium sulphate :

Bioaccumulation : no data available

Light Green Counterstain

Components:

acetic acid :

Bioaccumulation : no data available

12.4 Mobility in soil

Periodic Acid

No ingredients are hazardous according to OHSA criteria.

Silver A

No ingredients are hazardous according to OHSA criteria.

Silver B

Components:

methenamine :

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

borax decahydrate :

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

Toner

No ingredients are hazardous according to OHSA criteria.

Fixer

No ingredients are hazardous according to OHSA criteria.

Hematoxylin

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Components:

ethane-1,2-diol :

Mobility : no data available
Distribution among environmental compartments : no data available
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

acetic acid :

Mobility : no data available
Distribution among environmental compartments : no data available
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

haematoxylin :

Mobility : no data available
Distribution among environmental compartments : no data available
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

sodium iodate :

Mobility : no data available
Distribution among environmental compartments : no data available
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

aluminium sulphate :

Mobility : no data available
Distribution among environmental compartments : no data available
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

Light Green Counterstain

Components:

acetic acid :

Mobility : no data available
Distribution among : no data available

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environmental compartments
Environmental fate and pathways : no data available
Physico-chemical removability : no data available

12.5 Results of PBT and vPvB assessment

Periodic Acid

No ingredients are hazardous according to OSHA criteria.

Silver A

No ingredients are hazardous according to OSHA criteria.

Silver B

Components:

methenamine :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

borax decahydrate :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Toner

No ingredients are hazardous according to OSHA criteria.

Fixer

No ingredients are hazardous according to OSHA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

acetic acid :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

haematoxylin :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

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(vPvB).

sodium iodate :

Assessment

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

aluminium sulphate :

Assessment

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Light Green Counterstain

Components:

acetic acid :

Assessment

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

Periodic Acid

No ingredients are hazardous according to OHSA criteria.

Silver A

No ingredients are hazardous according to OHSA criteria.

Silver B

Components:

methenamine :

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : no data available

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borax decahydrate :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

Toner

No ingredients are hazardous according to OSHA criteria.

Fixer

No ingredients are hazardous according to OSHA criteria.

Hematoxylin

Components:

ethane-1,2-diol :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

acetic acid :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

haematoxylin :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

sodium iodate :

Biochemical Oxygen : no data available

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Demand (BOD)
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

aluminium sulphate :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : not applicable

Light Green Counterstain

Components:

acetic acid :

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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14. Transport information

14.1 UN number

DOT	: 3316
IMDG	: 3316
IATA	: 3316

14.2 Proper shipping name

DOT	: Chemical kits
IMDG	: Chemical kit
IATA	: Chemical kit

14.3 Transport hazard class

DOT	: 9
IMDG	: 9
IATA	: 9

14.4 Packing group

DOT	
Packaging group	: III
Labels	: 9
Tunnel restriction code	: packed
IMDG	
Packaging group	: III
Labels	: 9
EmS Number	: F-A, S-P
IATA_C	
Packing instruction (cargo aircraft)	: 960
Packaging group	: III
Labels	: 9
IATA_P	
Packing instruction (passenger aircraft)	: 960
Packaging group	: III
Labels	: 9

14.5 Environmental hazards

DOT	
Environmentally hazardous	: no
IMDG	
Marine Pollutant	: no
IATA	
Environmentally hazardous	: no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Remarks : not applicable

15. Regulatory information

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

Periodic Acid

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : E Corrosive Material
Corrosive to metals

Corrosive to skin

Corrosive to eyes

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

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This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components : water 90 - 100 %

New Jersey Right To Know

Components : water 90 - 100 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Silver A

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : silver nitrate 1 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

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Clean Air Act

Ozone-Depletion Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

silver nitrate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

silver nitrate

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	: water	90 - 100 %
	silver nitrate	0.1 - 1 %

New Jersey Right To Know

Components	: water	90 - 100 %
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California Prop 65 Components

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Silver B

REGULATORY INFORMATION

OSHA Hazards

: Harmful by skin absorption.
Moderate eye irritant

WHMIS Classification

: D2B Toxic Material Causing Other Toxic Effects
Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

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SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

Acute Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

methenamine 13.5 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

Components : borax decahydrate 1 - 5 %

Pennsylvania Right To Know

Components : water 70 - 90 %
methenamine 10 - 30 %
borax decahydrate 1 - 5 %

New Jersey Right To Know

Components : water 70 - 90 %
methenamine 10 - 30 %
borax decahydrate 1 - 5 %

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California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Toner

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : E Corrosive Material
Corrosive to metals

Corrosive to skin

Corrosive to eyes

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components : water 90 - 100 %

New Jersey Right To Know

Components : water 90 - 100 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Fixer

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components : water 90 - 100 %

New Jersey Right To Know

Components : water 90 - 100 %
sodium thiosulphate 1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Hematoxylin

REGULATORY INFORMATION

OSHA Hazards : Toxic by ingestion
Corrosive to skin
Severe eye irritant

WHMIS Classification : D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by ingestion
D2B Toxic Material Causing Other Toxic Effects
Severe eye irritant
E Corrosive Material
Corrosive to skin

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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : ethane-1,2-diol 5000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

Acute Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Components : ethane-1,2-diol

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

ethane-1,2-diol 30 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

ethane-1,2-diol 30 %

acetic acid 1 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

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Components	:	ethane-1,2-diol	30 - 50 %
		acetic acid	1 - 5 %
		aluminium sulphate	1 - 5 %

Pennsylvania Right To Know

Components	:	water	50 - 70 %
		ethane-1,2-diol	30 - 50 %
		acetic acid	1 - 5 %
		aluminium sulphate	1 - 5 %

New Jersey Right To Know

Components	:	water	50 - 70 %
		ethane-1,2-diol	30 - 50 %
		acetic acid	1 - 5 %
		haematoxylin	1 - 5 %
		sodium iodate	1 - 5 %
		aluminium sulphate	1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Light Green Counterstain

REGULATORY INFORMATION

OSHA Hazards : Corrosive to skin

WHMIS Classification : E Corrosive Material
Corrosive to metals

Corrosive to skin

Corrosive to eyes

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components	:	<u>acetic acid</u>	5000 lbs
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SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

Acute Health Hazard

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EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 1 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

Components : acetic acid 1 - 5 %

Pennsylvania Right To Know

Components : water 90 - 100 %
acetic acid 1 - 5 %

New Jersey Right To Know

Components : water 90 - 100 %
acetic acid 1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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16. Other information

Full text of R-phrases referred to under sections 2 and 3

R 8	Contact with combustible material may cause fire.
R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.

Full text of H-Statements referred to under sections 2 and 3.

Further information

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.