

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STEINER STAINING KIT

Version 1.0

Revision Date 09-10-2012

Print Date 05-13-2013

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

#### 1.1 Product identifier

Commercial Product Name : STEINER STAINING KIT  
Mat.-No./ Genisys-No. : 05279330001

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

Recommended restrictions : For professional users only.  
on use

#### 1.3 Details of the supplier of the safety data sheet

Company : Ventana Medical Systems  
1910 E. Innovation Park Drive  
85755 Tucson AZ  
E-mail address :  
Telephone : 1-800-227-2155 or 520-877-2155  
Telefax :  
Responsible Department :  
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or  
Canada)  
1-703-527-3887  
(International)  
:

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

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

Highly flammable	R11: Highly flammable.
Harmful	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
Harmful	R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

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### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H225  
H315  
H319  
H371  
H411

Highly flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause damage to organs.  
Toxic to aquatic life with long lasting effects.

Precautionary statements

:

#### Prevention:

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233

Keep container tightly closed.

P240

Ground/bond container and receiving equipment.

P241

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242

Use only non-sparking tools.

P243

Take precautionary measures against static discharge.

P260

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P280

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

#### Response:

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.

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

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

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

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical

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P391  
**Storage:**  
P403 + P235  
P405  
**Disposal:**  
P501

or alcohol-resistant foam for extinction.  
Collect spillage.

Store in a well-ventilated place. Keep cool.  
Store locked up.

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

### Additional Labelling:

EUH210 Safety data sheet available on request.

EUH208 Contains: hydroquinone May produce an allergic reaction.

### 2.3 Other hazards

No information available.

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Diffuser

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

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

Flammable

R10: Flammable.

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 25 - < 50
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	>= 1 - < 3
propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 10

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.

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### Enhancer

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2  
Specific target organ toxicity - single exposure, Category 2

H225: Highly flammable liquid and vapour.  
H371: May cause damage to organs.

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

Highly flammable  
Harmful

R11: Highly flammable.  
R20/21/22, R68/20/21/22: Harmful by inhalation, in contact with skin and if swallowed., Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 50 - <= 100
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	>= 3 - < 10
propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 10

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.

### Reducer

#### 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.

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

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### Silver

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

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.

### Diluent I + II

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

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

Flammable

R10: Flammable.

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 10 - < 20
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331	>= 1 - < 3

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			Acute Tox. 3; H311 STOT SE 1; H370	
propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 10

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.  
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 : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
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 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.

#### 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.

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### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### 6.4 Reference to other sections

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

## 7. Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
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.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking.  
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 or package insert
- 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

*Diffuser*



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**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

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		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
propan-2-ol	67-63-0	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm 980 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500 ppm 1,225 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm 980 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm 980 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	500 ppm 1,225 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

*Enhancer***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)

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		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
propan-2-ol	67-63-0	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm 980 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500 ppm 1,225 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm	USA. Occupational

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			980 mg/m3	Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm 980 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	500 ppm 1,225 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

### *Reducer*

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
hydroquinone	123-31-9	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		C	2 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	2 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	2 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

### *Silver*

Contains no substances with occupational exposure limit values.

### *Diluent I + II*

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

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		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
propan-2-ol	67-63-0	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm	USA. NIOSH

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			980 mg/m3	Recommended Exposure Limits
		ST	500 ppm 1,225 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm 980 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm 980 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	500 ppm 1,225 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
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- 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

*Diffuser*

Appearance : liquid

Colour : colourless

Odour : alcohol-like

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pH	: 7.25
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: 26.7 °C
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.

### *Enhancer*

Appearance	: liquid
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Colour	: colourless
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Odour	: alcohol-like
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pH	: 4.38
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Melting point/range	: no data available
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Boiling point/boiling range	: no data available
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Flash point	: < 15.6 °C
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Lower explosion limit	: no data available
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Upper explosion limit	: no data available
-----------------------	---------------------

Vapour pressure	: no data available
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Density	: 0.8151 g/cm <sup>3</sup>
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Water solubility	: completely miscible
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Partition coefficient: n-octanol/water	: no data available
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Ignition temperature	: no data available
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Thermal decomposition	: no data available
-----------------------	---------------------

Viscosity, dynamic	: no data available
--------------------	---------------------

Oxidizing properties	: The substance or mixture is not classified as oxidizing.
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### *Reducer*

Appearance	: liquid
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Colour	: colourless
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Odour	: none
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pH	: 4.2 - 4.8
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
Density	: 0.999 g/cm <sup>3</sup>
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*

Appearance : liquid

Colour : colourless

Odour : none

pH : 6.04

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.

### *Diluent I + II*

Appearance : liquid



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Colour	: colourless
Odour	: alcohol-like
pH	: 6.50 - 6.75
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: 37.8 °C
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.

### 9.2 Other information

#### *Diffuser*

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

#### *Enhancer*

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

#### *Reducer*

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

#### *Silver*

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

#### *Diluent I + II*

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

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### 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  
Alkali metals  
Bases  
With acid and aluminium.
- : Further information: No decomposition if stored and applied as directed.
- : Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

- Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

- Materials to avoid : no data available

#### 10.6 Hazardous decomposition products

- Hazardous decomposition products : Carbon oxides  
Ammonia

### 11. Toxicological information

#### 11.1 Information on toxicological effects

*Diffuser*

##### **Components:**

**ethanol :**

- Acute oral toxicity : LD50: 7,000 mg/kg, rat  
: LD50: 3,450 mg/kg, mouse
- Acute inhalation toxicity : LC50: 20000 ppm, 10 h, rat,  
: LC50: 39 g/m3, 4 h, mouse,
- Acute dermal toxicity : no data available
- Acute toxicity (other routes of administration) : no data available
- Skin corrosion/irritation : This information is not available.

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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.
Aspiration toxicity	: no data available
Further information	: no data available
<b>methanol :</b>	
Acute oral toxicity	: Acute toxicity estimate: 100 mg/kg, Expert judgement : LD50 Oral: 7,300 mg/kg, mouse : LD50 Oral: 5,600 mg/kg, rat
Acute inhalation toxicity	: Acute toxicity estimate: 3 mg/l, vapour, Expert judgement : LC50: 85.26 mg/l, 4 h, rat, : LC50: 64000 ppm, 4 h, rat,
Acute dermal toxicity	: Acute toxicity estimate: 300 mg/kg, Expert judgement : LD50 Dermal: 15,800 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: The product may be absorbed through the skin., May irritate skin.
Serious eye damage/eye irritation	: Contact with eyes may cause irritation.
Respiratory or skin sensitization	: guinea pig, Did not cause sensitization on laboratory animals.
Germ cell mutagenicity	
Genotoxicity in vitro	: Ames test, Result: negative
Genotoxicity in vivo	: Result: negative
STOT - single exposure	: Assessment: Causes damage to organs.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: No aspiration toxicity classification
Further information	: Solvents may degrease the skin.
<b>propan-2-ol :</b>	
Acute oral toxicity	: LD50 Oral: 4,570 mg/kg, rat

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	: LD50 Oral: 3,600 mg/kg, mouse
	: LD50 Oral: 6,410 mg/kg, rabbit
Acute inhalation toxicity	: LC50: 30 mg/l, 16000 ppm, 4 h, rat,
	: LC50: 53 mg/l, mouse
Acute dermal toxicity	: LD50 Dermal: 13,400 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	: Result: Irritating to eyes., May cause irreversible eye damage.
STOT - single exposure	: Assessment: May cause drowsiness or dizziness.
Aspiration toxicity	: no data available
Further information	: no data available

### *Enhancer*

#### **Components:**

##### **ethanol :**

Acute oral toxicity	: LD50: 7,000 mg/kg, rat
	: LD50: 3,450 mg/kg, mouse
Acute inhalation toxicity	: LC50: 20000 ppm, 10 h, rat,
	: LC50: 39 g/m3, 4 h, mouse,
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.
Aspiration toxicity	: no data available
Further information	: no data available

##### **methanol :**

Acute oral toxicity	: Acute toxicity estimate: 100 mg/kg, Expert judgement
	: LD50 Oral: 7,300 mg/kg, mouse

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	: LD50 Oral: 5,600 mg/kg, rat
Acute inhalation toxicity	: Acute toxicity estimate: 3 mg/l, vapour, Expert judgement
	: LC50: 85.26 mg/l, 4 h, rat,
	: LC50: 64000 ppm, 4 h, rat,
Acute dermal toxicity	: Acute toxicity estimate: 300 mg/kg, Expert judgement
	: LD50 Dermal: 15,800 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: The product may be absorbed through the skin., May irritate skin.
Serious eye damage/eye irritation	: Contact with eyes may cause irritation.
Respiratory or skin sensitization	: guinea pig, Did not cause sensitization on laboratory animals.
Germ cell mutagenicity	
Genotoxicity in vitro	: Ames test, Result: negative
Genotoxicity in vivo	: Result: negative
STOT - single exposure	: Assessment: Causes damage to organs.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: No aspiration toxicity classification
Further information	: Solvents may degrease the skin.

### propan-2-ol :

Acute oral toxicity	: LD50 Oral: 4,570 mg/kg, rat
	: LD50 Oral: 3,600 mg/kg, mouse
	: LD50 Oral: 6,410 mg/kg, rabbit
Acute inhalation toxicity	: LC50: 30 mg/l, 16000 ppm, 4 h, rat,
	: LC50: 53 mg/l, mouse
Acute dermal toxicity	: LD50 Dermal: 13,400 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	: Result: Irritating to eyes., May cause irreversible eye damage.
STOT - single exposure	: Assessment: May cause drowsiness or dizziness.

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Aspiration toxicity : no data available

Further information : no data available

### *Reducer*

#### **Components:**

##### **hydroquinone :**

Acute oral toxicity : LD50 Oral: 302 mg/kg, rat

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50 Dermal: > 1,001 mg/kg, guinea pig

Skin corrosion/irritation : May cause skin irritation and/or dermatitis.

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

Respiratory or skin sensitization : rabbit, Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Assessment : In vitro tests showed mutagenic effects

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

### *Silver*

#### **Components:**

##### **silver nitrate :**

Acute oral toxicity : LD50 Oral: 1,173 mg/kg, rat

: LD50 Oral: 50 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: Causes 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.

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Aspiration toxicity : no data available

Further information : no data available

### *Diluent I + II*

#### **Components:**

##### **ethanol :**

Acute oral toxicity : LD50: 7,000 mg/kg, rat

: LD50: 3,450 mg/kg, mouse

Acute inhalation toxicity : LC50: 20000 ppm, 10 h, rat,

: LC50: 39 g/m<sup>3</sup>, 4 h, mouse,

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.

Aspiration toxicity : no data available

Further information : no data available

##### **methanol :**

Acute oral toxicity : Acute toxicity estimate: 100 mg/kg, Expert judgement

: LD50 Oral: 7,300 mg/kg, mouse

: LD50 Oral: 5,600 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l, vapour, Expert judgement

: LC50: 85.26 mg/l, 4 h, rat,

: LC50: 64000 ppm, 4 h, rat,

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg, Expert judgement

: LD50 Dermal: 15,800 mg/kg, rabbit

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

Skin corrosion/irritation : The product may be absorbed through the skin., May irritate skin.

Serious eye damage/eye irritation : Contact with eyes may cause irritation.

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Respiratory or skin sensitization	: guinea pig, Did not cause sensitization on laboratory animals.
Germ cell mutagenicity	
Genotoxicity in vitro	: Ames test, Result: negative
Genotoxicity in vivo	: Result: negative
STOT - single exposure	: Assessment: Causes damage to organs.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: No aspiration toxicity classification
Further information	: Solvents may degrease the skin.
<b>propan-2-ol :</b>	
Acute oral toxicity	: LD50 Oral: 4,570 mg/kg, rat : LD50 Oral: 3,600 mg/kg, mouse : LD50 Oral: 6,410 mg/kg, rabbit
Acute inhalation toxicity	: LC50: 30 mg/l, 16000 ppm, 4 h, rat, : LC50: 53 mg/l, mouse
Acute dermal toxicity	: LD50 Dermal: 13,400 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	: Result: Irritating to eyes., May cause irreversible eye damage.
STOT - single exposure	: Assessment: May cause drowsiness or dizziness.
Aspiration toxicity	: no data available
Further information	: no data available

## 12. Ecological information

### 12.1 Toxicity

*Diffuser*

#### **Components:**

**ethanol :**

Toxicity to fish : LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe)



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Toxicity to daphnia and other aquatic invertebrates : LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
Toxicity to algae : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)  
Toxicity to algae : EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green algae)

Toxicity to bacteria : EC0: 6,500 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

### methanol :

Toxicity to fish : LC50: 15,400 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)  
: LC50: 8,000 mg/l, 48 h, Oncorhynchus mykiss (rainbow trout)  
: LC50: > 10,000 mg/l, Leuciscus idus (Golden orfe)  
Toxicity to daphnia and other aquatic invertebrates : EC50: > 10,000 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : 8,000 mg/l, 8 d, Scenedesmus quadricauda (Green algae)  
Toxicity to bacteria : 6,600 mg/l, 16 h, Bacteria

### Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

### propan-2-ol :

Toxicity to fish : LC0: 10,000 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
: LC50: 12,250 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
: LC100: 15,000 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50: 9,500 mg/l, 24 h, Daphnia magna (Water flea)

Toxicity to algae : EC0: 1,800 mg/l, 168 h, Scenedesmus quadricauda (Green algae), OECD Test Guideline 201

Toxicity to bacteria : EC0: 1,050 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

### Enhancer

### Components:

### ethanol :

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Toxicity to fish : LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe)  
: LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout),  
OECD Test Guideline 203

Toxicity to daphnia and other : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)  
aquatic invertebrates

Toxicity to algae : EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green  
algae)

Toxicity to bacteria : EC0: 6,500 mg/l, 16 h, Pseudomonas putida

### Ecotoxicology Assessment

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

Other organisms relevant to : no data available  
the environment

### methanol :

Toxicity to fish : LC50: 15,400 mg/l, 96 h, Lepomis macrochirus (Bluegill  
sunfish)  
: LC50: 8,000 mg/l, 48 h, Oncorhynchus mykiss (rainbow trout)  
: LC50: > 10,000 mg/l, Leuciscus idus (Golden orfe)

Toxicity to daphnia and other : EC50: > 10,000 mg/l, 48 h, Daphnia magna (Water flea)  
aquatic invertebrates

Toxicity to algae : 8,000 mg/l, 8 d, Scenedesmus quadricauda (Green algae)

Toxicity to bacteria : 6,600 mg/l, 16 h, Bacteria

### Ecotoxicology Assessment

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

Other organisms relevant to : no data available  
the environment

### propan-2-ol :

Toxicity to fish : LC0: 10,000 mg/l, Oncorhynchus mykiss (rainbow trout),  
OECD Test Guideline 203  
: LC50: 12,250 mg/l, Oncorhynchus mykiss (rainbow trout),  
OECD Test Guideline 203  
: LC100: 15,000 mg/l, Oncorhynchus mykiss (rainbow trout),  
OECD Test Guideline 203

Toxicity to daphnia and other : EC50: 9,500 mg/l, 24 h, Daphnia magna (Water flea)  
aquatic invertebrates

Toxicity to algae : EC0: 1,800 mg/l, 168 h, Scenedesmus quadricauda (Green  
algae), OECD Test Guideline 201

Toxicity to bacteria : EC0: 1,050 mg/l, 16 h, Pseudomonas putida

### Ecotoxicology Assessment

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

Other organisms relevant to : no data available  
the environment

*Reducer*

### Components:

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### hydroquinone :

- Toxicity to fish : LC50: 0.15 mg/l, Leuciscus idus (Golden orfe), OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50: 0.15 mg/l, Daphnia magna (Water flea)
- Toxicity to algae : EC0: 0.93 mg/l, 168 h, Scenedesmus quadricauda (Green algae)
- Toxicity to bacteria : EC0: 58 mg/l, 16 h, Pseudomonas putida
- Ecotoxicology Assessment**
- Acute aquatic toxicity : Very toxic to aquatic life.
- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : no data available

### Silver

#### Components:

### silver nitrate :

- Toxicity to fish : LC50: 0.4 mg/l, 96 h, Leuciscus idus (Golden orfe)
- Toxicity to daphnia and other aquatic invertebrates : LC50: 0.029 mg/l, 96 h, Leuciscus idus (Golden orfe)
- Toxicity to algae : LC50: 0.015 mg/l, 48 h, Daphnia magna (Water flea)
- Toxicity to bacteria : no data available
- Ecotoxicology Assessment**
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.
- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : no data available

### Diluent I + II

#### Components:

### ethanol :

- Toxicity to fish : LC50: 8,000 mg/l, 48 h, Leuciscus idus (Golden orfe)
- Toxicity to daphnia and other aquatic invertebrates : LC50: 7,100 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203
- Toxicity to algae : EC50: 5,400 mg/l, 48 h, Daphnia magna (Water flea)
- Toxicity to bacteria : EC0: 5,000 mg/l, 7 d, Scenedesmus quadricauda (Green algae)
- Ecotoxicology Assessment**
- Toxicity to bacteria : EC0: 6,500 mg/l, 16 h, Pseudomonas putida
- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : no data available

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### **methanol :**

- Toxicity to fish : LC50: 15,400 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)  
: LC50: 8,000 mg/l, 48 h, Oncorhynchus mykiss (rainbow trout)  
: LC50: > 10,000 mg/l, Leuciscus idus (Golden orfe)  
Toxicity to daphnia and other aquatic invertebrates : EC50: > 10,000 mg/l, 48 h, Daphnia magna (Water flea)  
Toxicity to algae : 8,000 mg/l, 8 d, Scenedesmus quadricauda (Green algae)  
Toxicity to bacteria : 6,600 mg/l, 16 h, Bacteria

### **Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

### **propan-2-ol :**

- Toxicity to fish : LC0: 10,000 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
: LC50: 12,250 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
: LC100: 15,000 mg/l, Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203  
Toxicity to daphnia and other aquatic invertebrates : EC50: 9,500 mg/l, 24 h, Daphnia magna (Water flea)  
Toxicity to algae : EC0: 1,800 mg/l, 168 h, Scenedesmus quadricauda (Green algae), OECD Test Guideline 201  
Toxicity to bacteria : EC0: 1,050 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

## **12.2 Persistence and degradability**

*Diffuser*

### **Components:**

#### **ethanol :**

Biodegradability : no data available

#### **methanol :**

Biodegradability : 99 %, Result: Readily biodegradable., Exposure time: 30 d, OECD Test Guideline 301

#### **propan-2-ol :**

Biodegradability : 99 %, Exposure time: 11 d, OECD Test Guideline 302  
: 57 %, Exposure time: 5 d, OECD Test Guideline 302

*Enhancer*

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### Components:

#### **ethanol :**

Biodegradability : no data available

#### **methanol :**

Biodegradability : 99 %, Result: Readily biodegradable., Exposure time: 30 d,  
OECD Test Guideline 301

#### **propan-2-ol :**

Biodegradability : 99 %, Exposure time: 11 d, OECD Test Guideline 302  
: 57 %, Exposure time: 5 d, OECD Test Guideline 302

*Reducer*

### Components:

#### **hydroquinone :**

Biodegradability : 92 %, Exposure time: 28 d  
: 65 %, Exposure time: 14 d  
: 48 %, Exposure time: 7 d  
: 35 %, Exposure time: 5 d  
: OECD Test Guideline 302, According to the results of tests of  
biodegradability this product is considered as being readily  
biodegradable.

*Silver*

### Components:

#### **silver nitrate :**

Biodegradability : no data available

*Diluent I + II*

### Components:

#### **ethanol :**

Biodegradability : no data available

#### **methanol :**

Biodegradability : 99 %, Result: Readily biodegradable., Exposure time: 30 d,  
OECD Test Guideline 301

#### **propan-2-ol :**

Biodegradability : 99 %, Exposure time: 11 d, OECD Test Guideline 302  
: 57 %, Exposure time: 5 d, OECD Test Guideline 302

## 12.3 Bioaccumulative potential

*Diffuser*

### Components:

#### **ethanol :**

Bioaccumulation : no data available

#### **methanol :**

Bioaccumulation : Does not bioaccumulate.

#### **propan-2-ol :**

Bioaccumulation : no data available

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### *Enhancer*

#### **Components:**

##### **ethanol :**

Bioaccumulation : no data available

##### **methanol :**

Bioaccumulation : Does not bioaccumulate.

##### **propan-2-ol :**

Bioaccumulation : no data available

### *Reducer*

#### **Components:**

##### **hydroquinone :**

Bioaccumulation : no data available

### *Silver*

#### **Components:**

##### **silver nitrate :**

Bioaccumulation : no data available

### *Diluent I + II*

#### **Components:**

##### **ethanol :**

Bioaccumulation : no data available

##### **methanol :**

Bioaccumulation : Does not bioaccumulate.

##### **propan-2-ol :**

Bioaccumulation : no data available

## 12.4 Mobility in soil

### *Diffuser*

#### **Components:**

##### **ethanol :**

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available

removability

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### **methanol :**

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

### **propan-2-ol :**

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

### *Enhancer*

#### **Components:**

### **ethanol :**

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

### **methanol :**

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

### **propan-2-ol :**

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

### *Reducer*

#### **Components:**

### **hydroquinone :**

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

### *Silver*

#### **Components:**

##### **silver nitrate :**

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

### *Diluent I + II*

#### **Components:**

##### **ethanol :**

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

##### **methanol :**

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

##### **propan-2-ol :**

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



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### 12.5 Results of PBT and vPvB assessment

#### *Diffuser*

##### **Components:**

##### **ethanol :**

##### 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).

##### **methanol :**

##### 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).

##### **propan-2-ol :**

##### 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).

#### *Enhancer*

##### **Components:**

##### **ethanol :**

##### 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).

##### **methanol :**

##### 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).

##### **propan-2-ol :**

##### 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).

#### *Reducer*

##### **Components:**

##### **hydroquinone :**

##### 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).

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### *Silver*

#### **Components:**

##### **silver nitrate :**

##### 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).

### *Diluent I + II*

#### **Components:**

##### **ethanol :**

##### 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).

##### **methanol :**

##### 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).

##### **propan-2-ol :**

##### 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

### *Diffuser*

#### **Components:**

##### **ethanol :**

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

##### **methanol :**

Biochemical Oxygen Demand (BOD) : 600 - 1,120 mg/g, Biochemical oxygen demand, 5 d

Dissolved organic carbon (DOC) : no data available

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Chemical Oxygen Demand (COD) : 1,420 mg/g  
Adsorbed organic bound halogens (AOX) : no data available

### **propan-2-ol :**

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

### *Enhancer*

#### **Components:**

##### **ethanol :**

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

##### **methanol :**

Biochemical Oxygen Demand (BOD) : 600 - 1,120 mg/g, Biochemical oxygen demand, 5 d  
Dissolved organic carbon (DOC) : no data available  
Chemical Oxygen Demand (COD) : 1,420 mg/g  
Adsorbed organic bound halogens (AOX) : no data available

### **propan-2-ol :**

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

### *Reducer*

#### **Components:**

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### **hydroquinone :**

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

### *Silver*

#### **Components:**

##### **silver nitrate :**

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

### *Diluent I + II*

#### **Components:**

##### **ethanol :**

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

##### **methanol :**

Biochemical Oxygen Demand (BOD) : 600 - 1,120 mg/g, Biochemical oxygen demand, 5 d  
Dissolved organic carbon (DOC) : no data available  
Chemical Oxygen Demand (COD) : 1,420 mg/g  
Adsorbed organic bound halogens (AOX) : no data available

##### **propan-2-ol :**

Biochemical Oxygen Demand (BOD) : no data available

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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.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### 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 : II  
Labels : 9  
Tunnel restriction code : packed  
IMDG  
Packaging group : II  
Labels : 9  
EmS Number : F-A, S-P

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### IATA\_C

Packing instruction (cargo aircraft) : 960

Packaging group : II

Labels : 9

### IATA\_P

Packing instruction (passenger aircraft) : 960

Packaging group : II

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

Remarks : not applicable

## 15. Regulatory information

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

*Diffuser*

#### REGULATORY INFORMATION

**TSCA list** : Listed

(a) List of substances. The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

**OSHA Hazards** : Flammable liquid  
Moderate eye irritant  
Carcinogen

**WHMIS Classification** : B2 Flammable liquid  
Flammable liquid  
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.

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### CERCLA Reportable Quantity

Components : methanol 5000 lbs  
                  : methanol 5000 lbs

### SARA 302 Reportable Quantity

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

**SARA 311/312 Hazards** : Fire Hazard  
                                  Acute Health Hazard  
                                  Chronic 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 : methanol

### 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):**

methanol 2.5 %

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):**

ethanol 45 %

methanol 2.5 %

propan-2-ol 2.5 %

### 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

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### Massachusetts Right To Know

Components	:	ethanol	30 - 50 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

### Pennsylvania Right To Know

Components	:	water	50 - 70 %
		ethanol	30 - 50 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

### New Jersey Right To Know

Components	:	water	50 - 70 %
		ethanol	30 - 50 %
		methanol	1 - 5 %
		propan-2-ol	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.

### Enhancer

## REGULATORY INFORMATION

**TSCA list** : Listed

(a) List of substances. The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

**OSHA Hazards** : Flammable liquid  
Moderate eye irritant  
Carcinogen

**WHMIS Classification** : B2 Flammable liquid  
Flammable liquid  
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

Components	:	<u>methanol</u>	5000 lbs
		<u>methanol</u>	5000 lbs

### SARA 302 Reportable Quantity



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

Fire Hazard  
Acute Health Hazard  
Chronic 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 : methanol

### 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):**

methanol 4.5 %

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 I Intermediate or Final VOC's (40 CFR 60.489):**

ethanol 81 %

methanol 4.5 %

propan-2-ol 4.5 %

### 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	:	ethanol	70 - 90 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

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### Pennsylvania Right To Know

Components	:	ethanol	70 - 90 %
		Mastic (resin)	10 - 30 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

### New Jersey Right To Know

Components	:	ethanol	70 - 90 %
		Mastic (resin)	10 - 30 %
		methanol	1 - 5 %
		propan-2-ol	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.

### *Reducer*

## REGULATORY INFORMATION

**TSCA list** : Listed

(a) List of substances. The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

**OSHA Hazards** : Carcinogen

**WHMIS Classification** : D2A Very Toxic Material Causing Other Toxic Effects  
Carcinogen  
D2B Toxic Material Causing Other Toxic Effects  
Mutagen

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 : hydroquinone 100 lbs

### SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : hydroquinone  
Chronic Health Hazard

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

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**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:  
Components : hydroquinone

**SARA 304** : Calculated RQ exceeds reasonably attainable upper limit.  
Components : hydroquinone

### 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):**

hydroquinone 0.8 %

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):**

hydroquinone 0.8 %

acetic acid 0.0457 %

sodium acetate 0.0164 %

### 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 : hydroquinone 0.1 - 1 %

#### Pennsylvania Right To Know

Components : water 90 - 100 %  
hydroquinone 0.1 - 1 %  
acetic acid 0 - 0.1 %

#### New Jersey Right To Know

Components : water 90 - 100 %

**California Prop 65** : This product does not contain any chemicals known to State of

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### Components

California to cause cancer, birth defects, or any other reproductive harm.

*Silver*

### REGULATORY INFORMATION

#### OSHA Hazards

: Harmful by ingestion.  
Corrosive to skin

#### WHMIS Classification

: E Corrosive Material  
Corrosive to skin

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.

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).

#### Clean Water Act

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

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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

Components : silver nitrate 1 - 5 %

#### Pennsylvania Right To Know

Components : water 90 - 100 %  
silver nitrate 1 - 5 %

#### New Jersey Right To Know

Components : water 90 - 100 %  
silver nitrate 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.

### *Diluent I + II*

## REGULATORY INFORMATION

**TSCA list** : Listed

(a) List of substances. The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

**OSHA Hazards** : Moderate eye irritant  
Carcinogen

**WHMIS Classification** : B3 Combustible Liquid  
Combustible Liquid  
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

Components : methanol 5000 lbs  
methanol 5000 lbs

### SARA 302 Reportable Quantity

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

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Acute Health Hazard  
Chronic 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 : methanol

### 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):**

methanol 1 %

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 I Intermediate or Final VOC's (40 CFR 60.489):**

ethanol 18 %

methanol 1 %

propan-2-ol 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	:	ethanol	10 - 30 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

#### Pennsylvania Right To Know

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Components	:	water	70 - 90 %
		ethanol	10 - 30 %
		methanol	1 - 5 %
		propan-2-ol	1 - 5 %

### New Jersey Right To Know

Components	:	water	70 - 90 %
		ethanol	10 - 30 %
		methanol	1 - 5 %
		propan-2-ol	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.

### 16. Other information

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

**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.