

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



STEINER II 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 II STAINING KIT
Mat.-No./ Genisys-No. : 06521894001

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 : 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.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
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: Also harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Irritant	R36/37/38: Irritating to eyes, respiratory system and skin.

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Dangerous for the environment

R40: Limited evidence of a carcinogenic effect.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H225
H302
H315
H317
H319
H351
H371
H411

Highly flammable liquid and vapour.
Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
May cause damage to organs.
Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P201
P202

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

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.

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 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Remove/ Take

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	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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
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).
P330	Rinse mouth.
P333 + P313	If skin irritation or rash 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 or alcohol-resistant foam for extinction. Collect spillage.
P391	
Storage:	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal:	
P501	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

Steiner Clean A / B

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2

Acute toxicity, Category 4

Specific target organ toxicity - single exposure, Category 2

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H371: May cause damage to organs.

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

Highly flammable

R11: Highly flammable.

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Harmful

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.

*Silver A / B***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	>= 0.25 - < 2.5

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			Aquatic Chronic 1; H410	
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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

Oxidizer

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

Skin irritation, Category 2

Eye irritation, Category 2

Skin sensitization, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

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

Harmful

Carcinogenic Category 3

Sensitising

Irritant

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R40: Limited evidence of a carcinogenic effect.

R43: May cause sensitization by skin contact.

R36/37/38: Irritating to eyes, respiratory system and skin.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
formaldehyde	50-00-0 200-001-8	Carc.Cat.3; R40 T; R23/24/25 C; R34 R43	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Carc. 2; H351	>= 10 - < 20

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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)

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	>= 20 - < 25
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.

Enhancer

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.
Specific target organ toxicity - single H371: May cause damage to organs.
exposure, Category 2

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

Highly flammable R11: Highly flammable.
Harmful 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

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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.

*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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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. |
|-----------|--|

5. Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|---|
| Suitable extinguishing media | : Alcohol-resistant foam
Carbon dioxide (CO ₂)
Dry chemical |
|------------------------------|---|

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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).

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

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- 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.
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.
- 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

Steiner Clean A / B

Components with workplace control parameters

Components	CAS-No.	Value	Control	Source
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			parameters	
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
		STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

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				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

Silver A / B

Contains no substances with occupational exposure limit values.

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

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*Oxidizer***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
formaldehyde	50-00-0	C	0.3 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		C	0.1 ppm	USA. NIOSH Recommended Exposure Limits
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		C	0.1 ppm	USA. NIOSH Recommended Exposure Limits
propane-1,2-diol	57-55-6	TWA	10 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)
		TWA	10 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)

*Fixer***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)

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		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 980 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm	USA. OSHA - TABLE Z-1

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			980 mg/m3	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)
		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	USA. Occupational

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			260 mg/m3	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 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

Diffuser

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

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				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
		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

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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

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

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Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Melting point/range	: -114 °C
Boiling point/boiling range	: 78 °C
Flash point	: 13 °C
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.79 g/cm ³ , 20 °C
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 A / B

Appearance	: liquid
Colour	: colourless
Odour	: none
pH	: 4.8
Melting point/range	: no data available
Boiling point/boiling range	: 100 °C
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	: 0.998 g/cm ³
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

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

Reducer

Appearance : liquid

Colour : colourless

Odour : none

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/cm³

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.

Oxidizer

Appearance : liquid

pH : 5.23

Melting point/range : no data available

Boiling point/boiling range : 100 °C

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 : 1.0131 g/cm³

Water solubility : completely miscible

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

Ignition temperature : no data available

Thermal decomposition : no data available

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Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Fixer</i>	
Appearance	: liquid
pH	: 6.3
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: 31 °C
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.9735 g/cm ³
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.
<i>Enhancer</i>	
Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Melting point/range	: no data available
Boiling point/boiling range	: 78 °C
Flash point	: > 15.6 °C
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.7965 g/cm ³
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.

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Diffuser

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
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.

9.2 Other information

Steiner Clean A / B

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

Silver A / B

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

Oxidizer

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

Fixer

Conductivity	: no data available
Oxidising potential	: no data available

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Surface tension : no data available

Enhancer

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Diffuser

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:

Acids

Bases

Alkali metals

Oxidizing agents

: 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

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Components:

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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
- : 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

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- 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.
- Aspiration toxicity : no data available
- Further information : no data available

Silver A / B

No ingredients are hazardous according to OSHA criteria.

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

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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

Oxidizer

Components:

formaldehyde :

Acute oral toxicity : LD50: 100 mg/kg, rat

: LD50: 42 mg/kg, mouse

Acute inhalation toxicity : LC50: 203 mg/l, rat

: LC50: 0.155 mg/l, 2 h, mouse,

Acute dermal toxicity : LD50: 270 mg/kg, rabbit

Acute toxicity (other routes of administration) : LD50: 87 mg/kg, rat

: LD50: 300 mg/kg, mouse

: LD50: 420 mg/kg, rat

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 : Classification: May cause sensitization by skin contact., Causes sensitization.

Aspiration toxicity : no data available

Further information : no data available

propane-1,2-diol :

Acute oral toxicity : LD50: 20,000 mg/kg, rat

: LD50: 20,300 mg/kg, mouse

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50: 20,800 mg/kg, rabbit

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

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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

Fixer

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

: 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

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administration)

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.

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

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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 : 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.

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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.

Aspiration toxicity : no data available

Further information : no data available

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.

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
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.
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

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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

Steiner Clean A / B

Components:

ethanol :

Toxicity to fish	: LC50: 8,000 mg/l, 48 h, <i>Leuciscus idus</i> (Golden orfe) : LC50: 7,100 mg/l, <i>Oncorhynchus mykiss</i> (rainbow trout), OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50: 5,400 mg/l, 48 h, <i>Daphnia magna</i> (Water flea)
Toxicity to algae	: EC0: 5,000 mg/l, 7 d, <i>Scenedesmus quadricauda</i> (Green algae)
Toxicity to bacteria	: EC0: 6,500 mg/l, 16 h, <i>Pseudomonas putida</i>
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, <i>Lepomis macrochirus</i> (Bluegill sunfish) : LC50: 8,000 mg/l, 48 h, <i>Oncorhynchus mykiss</i> (rainbow trout) : LC50: > 10,000 mg/l, <i>Leuciscus idus</i> (Golden orfe)
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 10,000 mg/l, 48 h, <i>Daphnia magna</i> (Water flea)
Toxicity to algae	: 8,000 mg/l, 8 d, <i>Scenedesmus quadricauda</i> (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

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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 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

Silver A / B

No ingredients are hazardous according to OSHA criteria.

Reducer

Components:

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

Oxidizer

Components:

formaldehyde :

- Toxicity to fish : LC50: 108 mg/l, Leuciscus idus (Golden orfe)
: LC50: 50 mg/l, Oncorhynchus mykiss (rainbow trout)
: LC50: 41 mg/l, 96 h, Danio rerio (zebra fish)
: LC100: 70 mg/l, Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates : EC50: 42 mg/l, 24 h, Daphnia magna (Water flea), OECD Test Guideline 202

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Toxicity to algae : 2.5 mg/l, 168 h, Scenedesmus quadricauda (Green algae)
Toxicity to bacteria : EC0: 14 mg/l, 16 h, Pseudomonas putida

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

propane-1,2-diol :

Toxicity to fish : LC0: > 1,000 mg/l, 24 h, Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : EC50: 34,400 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : EC50: 92,000 mg/l, Chlorella pyrenoidosa

Toxicity to bacteria : EC50: 26,800 mg/l, 0.5 h, Photobacterium phosphoreum

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Fixer

Components:

ethanol :

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 aquatic invertebrates : 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)

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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 :

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 aquatic invertebrates : 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)

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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

Diffuser

Components:

ethanol :

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 aquatic invertebrates : 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 : EC50: > 10,000 mg/l, 48 h, Daphnia magna (Water flea)

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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 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

Steiner Clean A / B

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

Silver A / B

No ingredients are hazardous according to OSHA criteria.

Reducer

Components:

hydroquinone :

Biodegradability : 92 %, Exposure time: 28 d

: 65 %, Exposure time: 14 d

: 48 %, Exposure time: 7 d

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- : 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.

Oxidizer

Components:

formaldehyde :

Biodegradability : no data available

propane-1,2-diol :

Biodegradability : 98 %, Exposure time: 5 d, OECD Test Guideline 302

Fixer

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

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

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

12.3 Bioaccumulative potential

Steiner Clean A / B

Components:

ethanol :

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Bioaccumulation : no data available

methanol :

Bioaccumulation : Does not bioaccumulate.

propan-2-ol :

Bioaccumulation : no data available

Silver A / B

No ingredients are hazardous according to OSHA criteria.

Reducer

Components:

hydroquinone :

Bioaccumulation : no data available

Oxidizer

Components:

formaldehyde :

Bioaccumulation : no data available

propane-1,2-diol :

Bioaccumulation : no data available

Fixer

Components:

ethanol :

Bioaccumulation : no data available

methanol :

Bioaccumulation : Does not bioaccumulate.

propan-2-ol :

Bioaccumulation : no data available

Enhancer

Components:

ethanol :

Bioaccumulation : no data available

methanol :

Bioaccumulation : Does not bioaccumulate.

propan-2-ol :

Bioaccumulation : no data available

Diffuser

Components:

ethanol :

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Bioaccumulation : no data available

methanol :

Bioaccumulation : Does not bioaccumulate.

propan-2-ol :

Bioaccumulation : no data available

12.4 Mobility in soil

Steiner Clean A / B

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

Silver A / B

No ingredients are hazardous according to OSHA criteria.

Reducer

Components:

hydroquinone :

Mobility : no data available

Distribution among : no data available

environmental compartments

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

Oxidizer

Components:

formaldehyde :

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

propane-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

Fixer

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

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pathways
Physico-chemical : no data available
removability

Enhancer

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

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

methanol :

Mobility : no data available
Distribution among : no data available
environmental compartments
Environmental fate and : no data available
pathways

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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

12.5 Results of PBT and vPvB assessment

Steiner Clean A / B

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).

Silver A / B

No ingredients are hazardous according to OSHA criteria.

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).

Oxidizer

Components:

formaldehyde :

Assessment : This substance is not considered to be persistent,

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

propane-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).

Fixer

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).

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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).

12.6 Other adverse effects

Steiner Clean A / B

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

Silver A / B

No ingredients are hazardous according to OSHA criteria.

Reducer

Components:

hydroquinone :

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

Oxidizer

Components:

formaldehyde :

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

propane-1,2-diol :

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

Fixer

Components:

ethanol :

Biochemical Oxygen : no data available
Demand (BOD)

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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

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

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 :

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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

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
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

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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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 : 1987
IMDG : 1987
IATA : 1987

14.2 Proper shipping name

DOT : Alcohols, n.o.s. (Ethanol, Methanol, Isopropanol Solution)
IMDG : Alcohols, n.o.s. (Ethanol, Methanol, Isopropanol Solution)
IATA : Alcohols, n.o.s. (Ethanol, Methanol, Isopropanol Solution)

14.3 Transport hazard class

DOT : 3
IMDG : 3
IATA : 3

14.4 Packing group

DOT
Packaging group : II
Labels : 3
Tunnel restriction code : packed, Transport in tanks
IMDG
Packaging group : II
Labels : 3
EmS Number : F-E, S-D
IATA_C
Packing instruction (cargo aircraft) : 364
Packaging group : II
Labels : 3
IATA_P
Packing instruction (passenger aircraft) : 353
Packaging group : II
Labels : 3

14.5 Environmental hazards

DOT
Environmentally hazardous : no
IMDG
Marine Pollutant : no

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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

Steiner Clean A / B

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 : 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

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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 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 90 %

methanol 5 %

propan-2-ol 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	90 - 100 %
	methanol	5 - 10 %
	propan-2-ol	5 - 10 %

Pennsylvania Right To Know

Components	: ethanol	90 - 100 %
	methanol	5 - 10 %
	propan-2-ol	5 - 10 %

New Jersey Right To Know

Components	: ethanol	90 - 100 %
	methanol	5 - 10 %

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propan-2-ol

5 - 10 %

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 / B

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.

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:

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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.	
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Reducer

REGULATORY INFORMATION

TSCA list	:	Listed
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(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
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WHMIS Classification	:	D2A Very Toxic Material Causing Other Toxic Effects Carcinogen D2B Toxic Material Causing Other Toxic Effects Mutagen
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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	:	<u>hydroquinone</u>	100 lbs
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SARA 302 Reportable Quantity

Product	:	Calculated RQ exceeds reasonably attainable upper limit.	
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Components	:	<u>hydroquinone</u> Chronic Health Hazard
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EPCRA - Emergency Planning and Community Right-to-Know Act

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

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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.

Oxidizer

REGULATORY INFORMATION

OSHA Hazards : Highly toxic by inhalation
Toxic by ingestion
Toxic by skin absorption
Skin sensitizer
Corrosive to skin
Carcinogen

WHMIS Classification : D1A Very Toxic Material Causing Immediate and Serious Toxic Effects
Highly toxic by inhalation
D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by ingestion
D2A Very Toxic Material Causing Other Toxic Effects
Toxic by skin absorption
D2B Toxic Material Causing Other Toxic Effects
Carcinogen
E Corrosive Material
Skin sensitizer

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 : formaldehyde 100 lbs

SARA 302 Reportable Quantity

Product : 1000lbs

Components : formaldehyde
Acute Health Hazard
Chronic Health Hazard

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

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

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Components : formaldehyde

SARA 304 :
Components : formaldehyde

Components : formaldehyde

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):

formaldehyde 10 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

formaldehyde 10 %

The following chemical(s) are 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):

formaldehyde 10 %

propane-1,2-diol 10 %

sodium acetate 0.0678 %

acetic acid 0.0099 %

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 : formaldehyde 10 - 30 %

Pennsylvania Right To Know

Components : water 70 - 90 %
formaldehyde 10 - 30 %
propane-1,2-diol 10 - 30 %
zinc chloride 0 - 0.1 %

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New Jersey Right To Know

Components	:	water	70 - 90 %
		formaldehyde	10 - 30 %
		propane-1,2-diol	10 - 30 %

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

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

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.

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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 1.25 %

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 22.5 %

methanol 1.25 %

propan-2-ol 1.25 %

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

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 %

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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.

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

: methanol
methanol

5000 lbs

5000 lbs

SARA 302 Reportable Quantity

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

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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).

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

methanol 4.75 %

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 85.5 %

methanol 4.75 %

propan-2-ol 4.75 %

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 %

Pennsylvania Right To Know

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

New Jersey Right To Know

Components	: ethanol	70 - 90 %
	Mastic (resin)	5 - 10 %
	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.

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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.

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.

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

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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

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.

15.2 Chemical Safety Assessment

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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

R 8 Contact with combustible material may cause fire.

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.