

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SPECIAL STAINS ALCIAN YELLOW STAINING KI

Version 1.1

Revision Date 11-19-2012

Print Date 05-13-2013

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

#### 1.1 Product identifier

Commercial Product Name : SPECIAL STAINS ALCIAN YELLOW STAINING KI  
Mat.-No./ Genisys-No. : 05279321001

Ventana material number :

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

Recommended restrictions : For professional users only.  
on use

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

Company : Ventana Medical Systems  
1910 E. Innovation Park Drive  
85755 Tucson AZ

E-mail address :  
Telephone : 1-800-227-2155 or 520-877-2155  
Telefax :  
Responsible Department :  
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or  
Canada)  
1-703-527-3887  
(International)

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin corrosion, Category 1A	H314: Causes severe skin burns and eye damage.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 1A	H360D: May damage the unborn child.

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

Flammable	R10: Flammable.
Corrosive	R35: Causes severe burns.
Toxic	R61: May cause harm to the unborn child.

#### 2.2 Label elements

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

Hazard pictograms :



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Signal word	:	Danger	
Hazard statements	:	H226 H314 H360D	Flammable liquid and vapour. Causes severe skin burns and eye damage. May damage the unborn child.
Precautionary statements	:	<b>Prevention:</b> P201 P202  P210  P233 P240  P241  P242 P243  P264 P280  <b>Response:</b> P301 + P330 + P331 P303 + P361 + P353 P304 + P340 P305 + P351 + P338  P310 P321 P337 + P313 P363 P370 + P378  <b>Storage:</b> P403 + P235 P405 <b>Disposal:</b> P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Specific treatment (see supplemental first aid instructions on this label). If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  Store in a well-ventilated place. Keep cool. Store locked up.  Dispose of contents/ container to an approved waste disposal plant.

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### Additional Labelling:

Restricted to professional users.  
EUH210 Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### *Periodic Acid*

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

Skin corrosion, Category 1A

H314: Causes severe skin burns and eye damage.

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

Corrosive

R35: Causes severe burns.

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

#### *Toluidine Blue*

##### **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

#### *Stain*

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

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Reproductive toxicity, Category 1A

H360D: May damage the unborn child.

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

Flammable

R10: Flammable.

Toxic

R61: May cause harm to the unborn child.

### Hazardous components

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION)	Concentration [%]
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	Registration number		(EC) No 1272/2008)	
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 50 - <= 100
Alcian Yellow Dye	61968-76-1	T; T; R61 Xi; Xi; R36/37/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1A; H360D STOT SE 3; H335	>= 0.5 - < 10
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 1 - < 5

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

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

*Clarifier***Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2

H319: Causes serious eye irritation.

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

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

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
disodium disulphite	7681-57-4 231-673-0	Xn; R22 Xi; R41 R31	Acute Tox. 4; H302 Eye Dam. 1; H318	< 5

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

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

*Sensitizer***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.

**Hazardous components**

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
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	Registration number		(EC) No 1272/2008)	
borax decahydrate	1303-96-4 215-540-4	Repr.Cat.2; R60- R61	Acute Tox. 4; H312 Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 0.5 - < 8.5

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

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

### 4. First aid measures

#### 4.1 Description of first aid measures

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

#### 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

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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<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

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

#### 5.3 Advice for firefighters

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### 6. Accidental release measures

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

Personal precautions : Use personal protective equipment.  
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.  
Local authorities should be advised if significant spillages cannot be contained.

#### 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

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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

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
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.  
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
- 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).  
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, package insert or internal guidelines
- Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : Laboratory chemicals

## 8. Exposure controls/personal protection

### Exposure Guidelines

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### *Periodic Acid*

Contains no substances with occupational exposure limit values.

### *Toluidine Blue*

Contains no substances with occupational exposure limit values.

### *Stain*

#### 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/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

### *Clarifier*

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
disodium disulphite	7681-57-4	STEL	5 mg/m <sup>3</sup>	USA. ACGIH Threshold

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				Limit Values (TLV)
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

*Sensitizer***Components with workplace control parameters**

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

**Personal protective equipment**

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

Hand protection : Protective gloves

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

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- with the producers of the protective gloves.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- Periodic Acid*  
Appearance : liquid
- Colour : colourless
- pH : 1.7 - 1.9
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : not applicable
- Flammability (solid, gas) : The product is not flammable.
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Water solubility : completely miscible
- Partition coefficient: n-octanol/water : no data available
- Ignition temperature : no data available
- Thermal decomposition : no data available
- Viscosity, dynamic : no data available
- Toluidine Blue*  
Appearance : liquid
- Colour : blue
- pH : 5.99
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : not applicable
- Flammability (solid, gas) : The product is not flammable.
- Lower explosion limit : no data available

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

### *Stain*

Appearance : liquid

Colour : yellow-orange

Odour : vinegar-like

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : 23.9 °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.

### *Clarifier*

Appearance : liquid

Colour : colourless

Odour : sulphurous

pH : 2.5

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : not applicable

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

Lower explosion limit : no data available

Upper explosion limit : no data available

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Vapour pressure	: no data available
Density	: 1.005 g/cm <sup>3</sup>
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
<i>Sensitizer</i>	
Appearance	: liquid
Colour	: colourless
pH	: 9.25 - 9.35
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### 9.2 Other information

<i>Periodic Acid</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>Toluidine Blue</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>Stain</i>	
Conductivity	: no data available

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Oxidising potential : no data available

Surface tension : no data available

### *Clarifier*

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

### *Sensitizer*

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

## 10. Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:  
Oxidizing agents  
Reducing agents  
Acids  
Bases  
Vapours may form explosive mixture with air.

: 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 : no data available

Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : no data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides  
nitrogen oxides (NOx)  
Sulphur oxides

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### 11. Toxicological information

#### 11.1 Information on toxicological effects

Further information : Solvents may degrease the skin.

#### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

#### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

#### *Stain*

#### **Components:**

##### **ethanol :**

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

: LD50: 3,450 mg/kg, mouse

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

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

Acute dermal toxicity : no data available

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

Skin corrosion/irritation : This information is not available.

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

Respiratory or skin sensitization : Result: no data available

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

Aspiration toxicity : no data available

Further information : no data available

##### **Alcian Yellow Dye :**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

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

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

Serious eye damage/eye irritation : Result: Irritating to eyes.

Respiratory or skin : Result: no data available

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sensitization

STOT - single exposure : Target Organs: Respiratory system  
Assessment: May cause respiratory irritation.

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

Aspiration toxicity : no data available

Further information : no data available

### **acetic acid :**

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

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

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

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

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

Respiratory or skin sensitization : Result: no data available

Germ cell mutagenicity

Genotoxicity in vitro : Chromosome aberration test in vitro, Mutagenicity (in vitro mammalian cytogenetic test), In vitro tests did not show mutagenic effects

Assessment : Not mutagenic in Ames Test.

STOT - single exposure : Remarks: no data available

STOT - repeated exposure : Remarks: no data available

Aspiration toxicity : no data available

Further information : no data available

### *Clarifier*

#### **Components:**

#### **disodium disulphite :**

Acute oral toxicity : LD50 Oral: 1,131 mg/kg, rat

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg, rat

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

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administration)

- Skin corrosion/irritation : May cause skin irritation in susceptible persons.
- Serious eye damage/eye irritation : Result: Risk of serious damage to eyes., May cause irreversible eye damage.
- Respiratory or skin sensitization : Result: no data available
- STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
- STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : no data available
- Further information : no data available

### *Sensitizer*

#### **Components:**

##### **borax decahydrate :**

- Acute oral toxicity : LD50 Oral: 2,660 mg/kg, rat  
: LD50 Oral: 2,000 mg/kg, mouse
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg, rabbit
- Acute toxicity (other routes of administration) : no data available
- Skin corrosion/irritation : May cause skin irritation in susceptible persons.
- Serious eye damage/eye irritation : Result: Irritating to eyes., May cause irreversible eye damage.
- Respiratory or skin sensitization : Result: no data available
- STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
- STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : no data available
- Further information : no data available

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### 12. Ecological information

#### 12.1 Toxicity

##### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

##### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

##### *Stain*

##### **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

##### **Alcian Yellow Dye :**

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

##### **Ecotoxicology Assessment**

- 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

##### **acetic acid :**

- Toxicity to fish : LC50: 410 mg/l, 48 h, *Leuciscus idus* (Golden orfe)  
: NOEC: 1,000 mg/l, 96 h, *Oncorhynchus mykiss* (rainbow trout),  
OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 1,000 mg/l, 48 h, *Daphnia magna* (Water flea),  
OECD Test Guideline 202

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Toxicity to algae : no data available

Toxicity to bacteria : no data available

### **Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

### *Clarifier*

#### **Components:**

##### **disodium disulphite :**

Toxicity to fish : LC50: > 150 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

: LC50: < 220 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : EC50: 89 mg/l, 24 h, Daphnia magna (Water flea)

Toxicity to algae : IC50: 48 mg/l, 72 h, Desmodesmus subspicatus (green algae)

Toxicity to bacteria : EC50: 56 mg/l, 17 h, Pseudomonas putida

### **Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

### *Sensitizer*

#### **Components:**

##### **borax decahydrate :**

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

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

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

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

### **Ecotoxicology Assessment**

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

Other organisms relevant to the environment : no data available

## 12.2 Persistence and degradability

### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

### *Stain*

#### **Components:**

##### **ethanol :**

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Biodegradability : no data available

**Alcian Yellow Dye :**

Biodegradability : no data available

**acetic acid :**

Biodegradability : 71 %, Exposure time: 5 d, According to the results of tests of biodegradability this product is considered as being readily biodegradable.

*Clarifier*

**Components:**

**disodium disulphite :**

Biodegradability : no data available

*Sensitizer*

**Components:**

**borax decahydrate :**

Biodegradability : no data available

### 12.3 Bioaccumulative potential

*Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

*Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

*Stain*

**Components:**

**ethanol :**

Bioaccumulation : no data available

**Alcian Yellow Dye :**

Bioaccumulation : no data available

**acetic acid :**

Bioaccumulation : no data available

*Clarifier*

**Components:**

**disodium disulphite :**

Bioaccumulation : no data available

*Sensitizer*

**Components:**

**borax decahydrate :**

Bioaccumulation : no data available

### 12.4 Mobility in soil

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### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

### *Stain*

#### **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

##### **Alcian Yellow Dye :**

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

##### **acetic acid :**

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

### *Clarifier*

#### **Components:**

##### **disodium disulphite :**

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

### *Sensitizer*

#### **Components:**

##### **borax decahydrate :**

Mobility : no data available

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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

#### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

#### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

#### *Stain*

#### **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).

##### **Alcian Yellow Dye :**

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

##### **acetic acid :**

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

#### *Clarifier*

#### **Components:**

##### **disodium disulphite :**

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).

#### *Sensitizer*

#### **Components:**

##### **borax decahydrate :**

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

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### 12.6 Other adverse effects

#### *Periodic Acid*

No ingredients are hazardous according to OSHA criteria.

#### *Toluidine Blue*

No ingredients are hazardous according to OSHA criteria.

#### *Stain*

##### **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

##### **Alcian Yellow Dye :**

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

##### **acetic acid :**

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

#### *Clarifier*

##### **Components:**

##### **disodium disulphite :**

Biochemical Oxygen Demand (BOD) : no data available

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

### *Sensitizer*

#### **Components:**

##### **borax decahydrate :**

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

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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

## 14. Transport information

### 14.1 UN number

DOT : 1170  
IMDG : 1170  
IATA : 1170

### 14.2 Proper shipping name

DOT : Ethanol  
IMDG : Ethanol  
IATA : Ethanol

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### 14.3 Transport hazard class

**DOT** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**DOT**  
Packaging group : III  
Labels : 3  
Tunnel restriction code : packed, Transport in tanks

**IMDG**  
Packaging group : III  
Labels : 3  
EmS Number : F-E, S-D

**IATA\_C**  
Packing instruction (cargo aircraft) : 366

Packaging group : III  
Labels : 3

**IATA\_P**  
Packing instruction (passenger aircraft) : 355

Packaging group : III  
Labels : 3

### 14.5 Environmental hazards

**DOT**  
Environmentally hazardous : no

**IMDG**  
Marine Pollutant : no

**IATA**  
Environmentally hazardous : no

### 14.6 Special precautions for user

no data available

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

Remarks : not applicable

## 15. Regulatory information

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

*Periodic Acid*

#### REGULATORY INFORMATION

**OSHA Hazards** : No OSHA Hazards

**WHMIS Classification** : E Corrosive Material

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Corrosive to metals

Corrosive to skin

Corrosive to eyes

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

### CERCLA Reportable Quantity

### SARA 302 Reportable Quantity

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

**SARA 311/312 Hazards** : No SARA Hazards

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

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

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

### Clean Air Act

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

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

### Clean Water Act

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

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

### US State Regulations

#### Massachusetts Right To Know

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

#### Pennsylvania Right To Know

Components : water 90 - 100 %

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### New Jersey Right To Know

Components : water 90 - 100 %

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

### *Toluidine Blue*

## REGULATORY INFORMATION

**OSHA Hazards** : No OSHA Hazards

**WHMIS Classification** : Not Rated

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

### CERCLA Reportable Quantity

### SARA 302 Reportable Quantity

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

No SARA Hazards

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

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

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

### Clean Air Act

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

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

### Clean Water Act

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

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

### US State Regulations

#### Massachusetts Right To Know

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

#### Pennsylvania Right To Know

Components : water 90 - 100 %

#### New Jersey Right To Know

Components : water 90 - 100 %

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

### *Stain*

## REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid  
Corrosive to skin  
Moderate eye irritant  
Moderate respiratory irritant  
Carcinogen  
Teratogen

**WHMIS Classification** : B2 Flammable liquid  
Flammable liquid  
D2A Very Toxic Material Causing Other Toxic Effects  
Teratogen  
D2B Toxic Material Causing Other Toxic Effects  
Moderate respiratory irritant  
E Corrosive Material  
Moderate eye irritant  
  
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 : acetic acid 5000 lbs

### SARA 302 Reportable Quantity

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

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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.

### Clean Air Act

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

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

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

ethanol 50 %

acetic acid 1.5 %

### 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 50 - 70 %  
acetic acid 1 - 5 %

#### Pennsylvania Right To Know

Components : ethanol 50 - 70 %  
water 30 - 50 %  
acetic acid 1 - 5 %

#### New Jersey Right To Know

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Components	:	ethanol	50 - 70 %
		water	30 - 50 %
		Alcian Yellow Dye	1 - 5 %
		acetic acid	1 - 5 %

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

### *Clarifier*

### REGULATORY INFORMATION

**TSCA list** : Belongs to the group 'OSHA Chemicals in Need of Dermal Absorption Testing'

(e) Manufacturers and importers of the substances listed below by category must submit a Preliminary Assessment Information Manufacturers Report for each site at which they manufacture or import each substance by the reporting date shown in the table below. The categories are listed in alphabetic order with the chemical substances within each category listed by ascending numerical CAS number.

**OSHA Hazards** : Harmful by ingestion.  
Severe eye irritant

**WHMIS Classification** : D2B Toxic Material Causing Other Toxic Effects  
Severe 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 : hydrogen chloride 5000 lbs

### SARA 302 Reportable Quantity

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

Acute Health Hazard

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

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

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

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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):**

hydrogen chloride 0.005 %

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

### Clean Water Act

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

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

### US State Regulations

#### Massachusetts Right To Know

Components : disodium disulphite 1 - 5 %  
hydrogen chloride 0 - 0.1 %

#### Pennsylvania Right To Know

Components : water 90 - 100 %  
disodium disulphite 1 - 5 %

#### New Jersey Right To Know

Components : water 90 - 100 %  
disodium disulphite 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.

### *Sensitizer*

## REGULATORY INFORMATION

**OSHA Hazards** : Harmful by skin absorption.  
Moderate eye irritant

**WHMIS Classification** : D2B Toxic Material Causing Other Toxic Effects  
Moderate eye irritant

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



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**CERCLA Reportable Quantity**

**SARA 302 Reportable Quantity**

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

Acute Health Hazard

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

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

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

**Clean Air Act**

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

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

**Clean Water Act**

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

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

**US State Regulations**

**Massachusetts Right To Know**

Components : borax decahydrate 1 - 5 %

**Pennsylvania Right To Know**

Components : water 90 - 100 %  
borax decahydrate 1 - 5 %

**New Jersey Right To Know**

Components : water 90 - 100 %  
borax decahydrate 1 - 5 %

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

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### Components

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

### 15.2 Chemical Safety Assessment

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

### 16. Other information

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

R10	Flammable.
R11	Highly flammable.

#### 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.