SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>Date of last issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>04-24-2015</td>
<td>09-18-2014</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of first issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-10-2012</td>
</tr>
</tbody>
</table>

SECTION 1. IDENTIFICATION

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

Manufacturer or supplier’s details

Company name of supplier : Roche Diagnostics
Address : 9115 Hague Road
          46250 Indianapolis IN
Telephone : 1-800-428-5074
Emergency telephone number:
In case of emergencies: CHEMTREC
                      1-800-424-9300 (U.S. or Canada)
                      1-703-527-3887 (International)

Recommended use of the chemical and restrictions on use
Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

GHS Label element

Hazard pictograms : 🆘 🆗 🆏

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
                   H314 Causes severe skin burns and eye damage.
                   H350 May cause cancer.
                   H360 May damage fertility or the unborn child.

Precautionary statements : Prevention:
                           P201 Obtain special instructions before use.
                           P210 Keep away from heat/sparks/open flames/hot surfaces.
                           - No smoking.
                           P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
                           Response:
                           P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310 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.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P370 + P378 IF in case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Periodic Acid

GHS Classification
Skin corrosion Category 1
Serious eye damage Category 1

Hazardous components
No hazardous ingredients

Toluidine Blue

GHS Classification
Not a hazardous substance or mixture.

Hazardous components
No hazardous ingredients

Stain

GHS Classification
Flammable liquids Category 3
Skin irritation Category 2
Eye irritation Category 2A
Carcinogenicity Category 1A
Reproductive toxicity Category 1A

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>Alcian Yellow Dye</td>
<td>61968-76-1</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>acetic acid</td>
<td>64-19-7</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>
**Clarifier**

**GHS Classification**
Eye irritation
Category 2A
H319: Causes serious eye irritation.

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium disulphite</td>
<td>7681-57-4</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

**Sensitizer**

**GHS Classification**
Not a hazardous substance or mixture.

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>borax decahydrate</td>
<td>1303-96-4</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

**SECTION 4. 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.

Most important symptoms and effects, both acute and delayed: No information available.

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

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

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

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.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: 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.

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.

Methods and materials for containment and 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).

SECTION 7. HANDLING AND STORAGE
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.

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. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Conditions for safe storage: 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. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Periodic Acid

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Toluidine Blue

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Stain

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm / 1,900 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm / 1,900 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm / 1,900 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>acetic acid</td>
<td>64-19-7</td>
<td>TWA</td>
<td>10 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>15 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium disulphite</td>
<td>7681-57-4</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>borax decahydrate</td>
<td>1303-96-4</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Inhalable fraction)</td>
<td>2 mg/m³ (Borate)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL (Inhalable fraction)</td>
<td>6 mg/m³ (Borate)</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection

Material: Protective gloves

Remarks: 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 with the producers of the protective gloves.
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Version: 1.5
Revision Date: 04-24-2015
Date of last issue: 09-18-2014
Date of first issue: 10-10-2012

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

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Periodic Acid**

Appearance: liquid

Colour: colourless

Odour: No data available

Odour Threshold: No data available

pH: 1.7 - 1.9

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: does not flash

Evaporation rate: No data available

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

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Relative density: No data available

Density: No data available

Solubility(ies):
- Water solubility: completely miscible

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

**Toluidine Blue**

Appearance: liquid
Colour: blue

Odour: No data available

Odour Threshold: No data available

pH: 5.99

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: does not flash

Evaporation rate: No data available

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

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Relative density: No data available

Density: No data available

Solubility(ies):
- Water solubility: completely miscible

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

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

**Stain**

Appearance: liquid

Colour: yellow-orange

Odour: vinegar-like

Odour Threshold: No data available

pH: No data available

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: 23.9 °C

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure: No data available
Relative vapour density: No data available
Relative density: No data available
Density: No data available
Solubility(ies):
Water solubility: completely miscible
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: The substance or mixture is not classified as oxidizing.

**Clarifier**

Appearance: liquid
Colour: colourless
Odour: sulphurous
Odour Threshold: No data available
pH: 2.5
Melting point/range: No data available
Boiling point/boiling range: No data available
Flash point: does not flash
Evaporation rate: No data available
Flammability (solid, gas): The product is not flammable.
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure: No data available
Relative vapour density: No data available
Relative density: No data available
Density: 1.005 g/cm³

Solubility(ies):
Water solubility: completely miscible
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Version: 1.5
Revision Date: 04-24-2015
Date of last issue: 09-18-2014
Date of first issue: 10-10-2012

Viscosity: No data available
Explosive properties: No data available

Sensitizer

Appearance: liquid
Colour: colourless
Odour: No data available
Odour Threshold: No data available
pH: 9.25 - 9.35
Melting point/range: No data available
Boiling point/boiling range: No data available
Flash point: does not flash
Evaporation rate: No data available
Flammability (solid, gas): The product is not flammable.
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure: No data available
Relative vapour density: No data available
Relative density: No data available
Density: No data available
Solubility(ies)
Water solubility: completely soluble
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Reacts with the following substances:
Oxidizing agents
Reducing agents
Acids
Bases
Vapours may form explosive mixture with air.
No decomposition if stored and applied as directed.
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Vapours may form explosive mixture with air.

Conditions to avoid:
- No data available
- Heat, flames and sparks.

Incompatible materials:
- No data available

Hazardous decomposition products:
- Carbon oxides
- Nitrogen oxides (NOx)
- Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Periodic Acid

Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Causes severe burns.

Product:
Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation
Causes serious eye damage.

Product:
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.
STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

**Toluidine Blue**

Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

**Stain**

Acute toxicity
Not classified based on available information.

Product:
**SAFETY DATA SHEET**

**SPECIAL STAINS ALCIAN YELLOW STAINING KI**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>04-24-2015</td>
<td>09-18-2014</td>
<td>10-10-2012</td>
</tr>
</tbody>
</table>

### Components:

- **ethanol:**
  - **Acute oral toxicity:** LD50 (Rat): 7,000 mg/kg
  - LD50 (Mouse): 3,450 mg/kg

- **Acute inhalation toxicity:**
  - LC50 (Rat): 20000 ppm
    Exposure time: 10 h
  - LC50 (Mouse): 39 g/m3
    Exposure time: 4 h

- **acetic acid:**
  - **Acute oral toxicity:** LD50 Oral (Rat): 3,310 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

**Product:**
Remarks: May cause skin irritation in susceptible persons.

**Components:**

- **Alcian Yellow Dye:**
  - Result: Irritating to skin.
  - Remarks: May cause skin irritation in susceptible persons.

- **acetic acid:**
  - Result: Causes severe burns.

### Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:**
Remarks: May cause irreversible eye damage.

**Components:**

- **Alcian Yellow Dye:**
  - Result: Irritating to eyes.

- **acetic acid:**
  - Remarks: May cause irreversible eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

**Components:**
acetic acid:
Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: Mutagenicity (in vitro mammalian cytogenetic test)
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

Carcinogenicity
May cause cancer.
IARC Group 1: Carcinogenic to humans

ethanol 64-17-5

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
May damage fertility or the unborn child.

Components:
Alcian Yellow Dye:
Reproductive toxicity - Assessment : May damage the unborn child., Known human reproductive toxicant

STOT - single exposure
Not classified based on available information.

Components:
Alcian Yellow Dye:
Target Organs: Respiratory system
Assessment: May cause respiratory irritation.

STOT - repeated exposure
Not classified based on available information.

Components:
Alcian Yellow Dye:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity
Not classified based on available information.

Components:
Alcian Yellow Dye:
No data available
Further information

**Product:**
Remarks: Solvents may degrease the skin.

**Clarifier**

**Acute toxicity**
Not classified based on available information.

**Product:**
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

**Components:**
**disodium disulphite:**
Acute oral toxicity: LD50 Oral (Rat): 1,131 mg/kg
Acute dermal toxicity: LD50 Dermal (Rat): > 2,000 mg/kg

**Skin corrosion/irritation**
Not classified based on available information.

**Product:**
Remarks: May cause skin irritation in susceptible persons.

**Components:**
**disodium disulphite:**
Remarks: May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Product:**
Remarks: May cause irreversible eye damage.

**Components:**
**disodium disulphite:**
Result: Risk of serious damage to eyes.
Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.
IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

Components:
disodium disulphite:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure
Not classified based on available information.

Components:
disodium disulphite:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity
Not classified based on available information.

Components:
disodium disulphite:
No data available

Sensitizer

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:
borax decahydrate:
Acute oral toxicity: LD50 Oral (Rat): 2,660 mg/kg
**Safety Data Sheet**

**Special Stains: Alcian Yellow Staining Ki**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>04-24-2015</td>
<td>09-18-2014</td>
<td>10-10-2012</td>
</tr>
</tbody>
</table>

**LD50 Oral (Mouse):** 2,000 mg/kg

**Acute dermal toxicity:** LD50 Dermal (Rabbit): > 2,000 mg/kg

**Skin corrosion/irritation**
Not classified based on available information.

**Components:**
- **borax decahydrate:**
  Remarks: May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**
Not classified based on available information.

**Components:**
- **borax decahydrate:**
  Result: Irritating to eyes.
  Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**IARC**
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
Not classified based on available information.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**Section 12. Ecological Information**

**Periodic Acid**
Ecotoxicity

**Product:**
Ecotoxicology Assessment
Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**Other adverse effects**

**Product:**
Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: 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).

Toluidine Blue

Ecotoxicity

**Product:**
Ecotoxicology Assessment
Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**Other adverse effects**

**Product:**
Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: 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).
Stain

Ecotoxicity

Product:
Ecotoxicology Assessment
Toxicity Data on Soil: Not expected to adsorb on soil.
Other organisms relevant to the environment: No data available

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

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

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

Toxicity to bacteria:
EC0 (Pseudomonas putida): 6,500 mg/l
Exposure time: 16 h

Ecotoxicology Assessment
Toxicity Data on Soil: Not expected to adsorb on soil.
Other organisms relevant to the environment: No data available

Acetic acid:
Toxicity to fish:
LC50 (Leuciscus idus (Golden orfe)): 410 mg/l
Exposure time: 48 h
NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Method: OECD Test Guideline 202

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

Other organisms relevant to the environment : No data available

Persistence and degradability

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

Bioaccumulative potential

Components:
acetic acid:
Partition coefficient: n-octanol/water : log Pow: -0.31

Mobility in soil
No data available

Other adverse effects

Product:
Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: 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).

Components:
Alcian Yellow Dye: Additional ecological information : No data available

Clarifier

Ecotoxicity

Product:
Ecotoxicology Assessment
Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

Components:
disodium disulphite:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 150 mg/l
Exposure time: 96 h
LC50 (Oncorhynchus mykiss (rainbow trout)): < 220 mg/l
Exposure time: 96 h

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

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

Toxicity to bacteria: EC50 (Pseudomonas putida): 56 mg/l
Exposure time: 17 h

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

Other organisms relevant to the environment: No data available

Persistence and degradability
No data available

Bioaccumulative potential

Components:

Partition coefficient: n-octanol/water:
log Pow: -3.7 (25 °C)

Mobility in soil
No data available

Other adverse effects

Product:
Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: 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).

Sensitizer

Ecotoxicity

Product:
Ecotoxicology Assessment
Toxicity Data on Soil: Not expected to adsorb on soil.

Components:
borax decahydrate:
Toxicity to fish: LC50 (Carassius auratus (goldfish)): 630 mg/l  
Exposure time: 72 h

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

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

Toxicity to bacteria: EC0 (Pseudomonas putida): 15.8 mg/l  
Exposure time: 16 h

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

Other organisms relevant to the environment: No data available

Persistence and degradability  
No data available

Bioaccumulative potential  
No data available

Mobility in soil  
No data available

Other adverse effects

Product:  
Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: 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).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: 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.
SAFE DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR
UN/ID No. : UN 1170
Proper shipping name : Ethanol
Class : 3
Packing group : III
Labels : Flammable liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code
UN number : UN 1170
Proper shipping name : Ethanol
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

National Regulations

49 CFR
UN/ID/NA number : UN 1170
Proper shipping name : Ethanol
Class : 3
Packing group : III
Labels : Class 3 - Flammable Liquid
ERG Code : 127
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Periodic Acid
TSCA list : Not relevant

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

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards : No SARA Hazards

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

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
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).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

Pennsylvania Right To Know
water 7732-18-5 90 - 100 %

New Jersey Right To Know
water 7732-18-5 90 - 100 %

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

The components of this product are reported in the following inventories:
REACH : Not in compliance with the inventory
         : orthoperiodic acid
CH INV : On the inventory, or in compliance with the inventory
TSCA : On TSCA Inventory
DSL : All components of this product are on the Canadian DSL.
AICS : On the inventory, or in compliance with the inventory
NZIoC : On the inventory, or in compliance with the inventory
ENCS : Not in compliance with the inventory
       : water

ISHL : Not in compliance with the inventory
       : water

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

Inventories
AIICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan),
ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Toluidine Blue
TSCA list : Not relevant

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

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

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

SARA 313 : This material does not contain any chemical components with
           known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean
Air Act Section 12 (40 CFR 61).
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).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111
SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

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

Pennsylvania Right To Know
- water: 7732-18-5, 90 - 100 %

New Jersey Right To Know
- water: 7732-18-5, 90 - 100 %

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

The components of this product are reported in the following inventories:

- **REACH**: Not in compliance with the inventory
  - tolonium chloride
- **CH INV**: On the inventory, or in compliance with the inventory
- **TSCA**: On TSCA Inventory
- **DSL**: All components of this product are on the Canadian DSL.
- **AICS**: On the inventory, or in compliance with the inventory
- **NZIoC**: On the inventory, or in compliance with the inventory
- **ENCS**: Not in compliance with the inventory
  - water
  - tolonium chloride
- **ISHL**: Not in compliance with the inventory
  - water
  - tolonium chloride
- **KECI**: On the inventory, or in compliance with the inventory
- **PICCS**: On the inventory, or in compliance with the inventory
- **IECSC**: On the inventory, or in compliance with the inventory

**Inventories**
- AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**Stain**
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

TSCA list : Not relevant

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

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

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

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

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 60.1).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):
- ethanol 64-17-5 50 %
- acetic acid 64-19-7 1.5 %

Clean Water Act
The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:
- acetic acid 64-19-7 1.5 %
The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:
- acetic acid 64-19-7 1.5 %
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know
- ethanol 64-17-5 50 - 70 %
- acetic acid 64-19-7 1 - 5 %

Pennsylvania Right To Know
- ethanol 64-17-5 50 - 70 %
- water 7732-18-5 30 - 50 %
- acetic acid 64-19-7 1 - 5 %
New Jersey Right To Know

- **ethanol**: 64-17-5, 50 - 70 %
- **water**: 7732-18-5, 30 - 50 %
- **Alcian Yellow Dye**: 61968-76-1, 1 - 5 %
- **acetic acid**: 64-19-7, 1 - 5 %

California Prop 65

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

The components of this product are reported in the following inventories:

- **REACH**: Not in compliance with the inventory
  - ethanol
  - Alcian Yellow Dye
  - acetic acid
- **CH INV**: Not in compliance with the inventory
  - Alcian Yellow Dye
- **TSCA**: Not On TSCA Inventory
  - Alcian Yellow Dye
- **DSL**: This product contains the following components that are not on the Canadian DSL nor NDSL.
  - Alcian Yellow Dye
- **AICS**: On the inventory, or in compliance with the inventory
- **NZIoC**: Not in compliance with the inventory
  - acetic acid
- **ENCS**: Not in compliance with the inventory
  - water
  - Alcian Yellow Dye
- **ISHL**: Not in compliance with the inventory
  - water
  - Alcian Yellow Dye
- **KECI**: Not in compliance with the inventory
  - Alcian Yellow Dye
- **PICCS**: Not in compliance with the inventory
Alcian Yellow Dye

IECSC
Not in compliance with the inventory

Alcian Yellow Dye

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

 Clarifier
TSCA list
Not relevant

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

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
Acute Health Hazard

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

SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
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).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489).

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
hydrogen chloride 7647-01-0 0.005 %
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
hydrogen chloride 7647-01-0 0.005 %
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.
# SAFETY DATA SHEET

## SPECIAL STAINS ALCIAN YELLOW STAINING KI

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>04-24-2015</td>
<td>09-18-2014</td>
<td>10-10-2012</td>
</tr>
</tbody>
</table>

### Massachusetts Right To Know
- disodium disulphite: 7681-57-4, 1 - 5 %
- hydrogen chloride: 7647-01-0, 0 - 0.1 %

### Pennsylvania Right To Know
- water: 7732-18-5, 90 - 100 %
- disodium disulphite: 7681-57-4, 1 - 5 %

### New Jersey Right To Know
- water: 7732-18-5, 90 - 100 %
- disodium disulphite: 7681-57-4, 1 - 5 %

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

### The components of this product are reported in the following inventories:

- **REACH**: Not in compliance with the inventory
  - disodium disulphite
  - hydrogen chloride

- **CH INV**: On the inventory, or in compliance with the inventory

- **TSCA**: On TSCA Inventory

- **DSL**: All components of this product are on the Canadian DSL.

- **AICS**: On the inventory, or in compliance with the inventory

- **NZIoC**: On the inventory, or in compliance with the inventory

- **ENCS**: Not in compliance with the inventory
  - water

- **ISHL**: Not in compliance with the inventory
  - water

- **KECI**: On the inventory, or in compliance with the inventory

- **PICCS**: On the inventory, or in compliance with the inventory

- **IECSC**: On the inventory, or in compliance with the inventory

### Inventories
- AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

### Sensitizer
- **TSCA list**: Not relevant
EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
  : Acute Health Hazard

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

SARA 313
  : This material does not contain any chemical components with
    known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
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).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know
  borax decahydrate 1303-96-4 1 - 5 %

Pennsylvania Right To Know
  water 7732-18-5 90 - 100 %
  borax decahydrate 1303-96-4 1 - 5 %

New Jersey Right To Know
  water 7732-18-5 90 - 100 %
  borax decahydrate 1303-96-4 1 - 5 %

California Prop 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re-
productive harm.

The components of this product are reported in the following inventories:
REACH
  : Not in compliance with the inventory
    : borax decahydrate
CH INV: On the inventory, or in compliance with the inventory
TSCA: On TSCA Inventory
DSL: All components of this product are on the Canadian DSL.
AICS: On the inventory, or in compliance with the inventory
NZIoC: On the inventory, or in compliance with the inventory
ENCS: Not in compliance with the inventory

Water:

ISHL: Not in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory
PICCS: Not in compliance with the inventory
IECSC: On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Periodic Acid

GHS Label element
Hazard pictograms

Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Version 1.5
Revision Date: 04-24-2015
Date of last issue: 09-18-2014
Date of first issue: 10-10-2012

induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310 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.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Toluidine Blue

GHS Label element
Not a hazardous substance or mixture.

Stain

GHS Label element
Hazard pictograms:

Signal word: Danger

Hazard statements:
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.
H360 May damage fertility or the unborn child.

Precautionary statements:
Prevention:
P201 Obtain special instructions before use.
P202 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.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

GHS Label element
Hazard pictograms:

Signal word: Warning
Hazard statements: H319 Causes serious eye irritation.
Precautionary statements: Prevention:
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
Response:
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.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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.

Sensitizer

GHS Label element
Not a hazardous substance or mixture.

SECTION 16. OTHER INFORMATION

Further information

Periodic Acid
SAFETY DATA SHEET

SPECIAL STAINS ALCIAN YELLOW STAINING KI

Version 1.5
Revision Date: 04-24-2015
Date of last issue: 09-18-2014
Date of first issue: 10-10-2012

NFPA:

Toluidine Blue
NFPA:

Stain
NFPA:

Clarifier

HEALTH
FLAMMABILITY
PHYSICAL HAZARD

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Special hazard.

Special hazard.

Special hazard.
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.