

Safety Data Sheet
Trichrome Stain Kit (OSHA)



Safety Data Sheet
Trichrome Stain Kit (OSHA)

SECTION 1: Identification

1.1 GHS Product identifier

Product name Trichrome Stain Kit (OSHA)
Product number KT034
Brand Trichrome Stain Kit

1.2 Other means of identification

Kit Component	Volume	Storage
1. Acetic Acid Solution (1%)	125 mL	15-30°C
2. Aniline Blue Stain	125 mL	15-30°C
3. Biebrich Scarlet-Acid	125 mL	15-30°C
4. Bouin's Fluid	125 mL	15-30°C
5. Phosphomolybdic/ Phosphotungstic Acid	125 mL	15-30°C
6. Weigert's Hematoxylin "A"	125 mL	15-30°C
7. Weigert's Hematoxylin "B"	125 mL	15-30°C

1.3 Recommended use of the chemical and restrictions on use

In Vitro Diagnostic Use

1.4 Supplier's details

Name Diagnostic Biosystems
Address 6616 Owens Drive
Pleasanton CA 94588
USA

Telephone (888) 896-3350
email customersupport@dbiosys.com

1.5 Emergency phone number

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

SECTION 2: Hazard identification

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General hazard statement

For Professional Users Only

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, inhalation (C.4.3), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Acute toxicity, oral (C.4.1), Cat. 4
- Carcinogenicity (C.4.9), Cat. 1B
- Germ cell mutagenicity (C.4.8), Cat. 2
- Skin corrosion/irritation (C.4.4), Cat. 1B
- Sensitization, skin (C.4.7), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



1. Exclamation mark; 2. Health hazard; 3. Corrosion

Signal word

Danger

Hazard statement(s)

H302
H314
H317
H332
H341
H350

Harmful if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Harmful if inhaled
Suspected of causing genetic defects
May cause cancer

Precautionary statement(s)

P201
P202
P260
P261
P264
P270
P271
P272
P280

P301+P312
P301+P330+P331
P302+P352
P303+P361+P353

P304+P340
P305+P351+P338

P308+P313
P310
P312

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell,
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water/...
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.
Call a POISON CENTER/doctor if you feel unwell.

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P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to a licensed disposal company.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Component 1.

1. Acetic acid

Concentration <= 1 % (volume)

Other names / synonyms acetic acid ... %; ACETIC ACID, conc.>90%; ACETIC ACID, GLACIAL; ACETICACID; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID

EC no. 200-580-7
CAS no. 64-19-7
Index no. 607-002-00-6

- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage
SCLs/M-factors/ATEs Skin Corr. 1A; H314: C ≥ 90 %
Skin Corr. 1B; H314: 25 % ≤ C < 90 %
Skin Irrit. 2; H315: 10 % ≤ C < 25 %
Eye Irrit. 2; H319: 10 % ≤ C < 25 %

Component 2.

1. Acetic acid

Concentration <= 2 % (volume)

Other names / synonyms acetic acid; ACETIC ACID; ACETIC ACID, GLACIAL; ACETICACID; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID

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- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage
SCLs/M-factors/ATEs Skin Corr. 1A; H314: C ≥ 90 %
Skin Corr. 1B; H314: 25 % ≤ C < 90 %
Skin Irrit. 2; H315: 10 % ≤ C < 25 %
Eye Irrit. 2; H319: 10 % ≤ C < 25 %

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2. Aniline Blue

Concentration	<= 2 % (weight)
Other names / synonyms	Benzenesulfonic acid, aminomethyl[[4-[(sulfophenyl)amino]phenyl][4-[(sulfophenyl)imino]-2,5-cyclohexadien-1-ylidene]methyl]-, disodium salt
CAS no.	28631-66-5

Component 3.

1. Acetic acid

Concentration	<= 1 % (volume)
Other names / synonyms	acetic acid; ACETIC ACID; ACETIC ACID, GLACIAL; ACETICACID; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID
EC no.	200-580-7
CAS no.	64-19-7
Index no.	607-002-00-6

- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
SCLs/M-factors/ATEs	Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %

2. Biebrich Scarlet

Concentration	<= 1 % (weight)
Other names / synonyms	Benzenesulfonic acid, 2-[(2-hydroxy-1-naphthalenyl)azo]-5-[(4-sulfophenyl)azo]-, disodium salt;
CAS no.	4196-99-0

3. Fuchsin Acid

Concentration	<= 1 % (weight)
Other names / synonyms	Benzenesulfonic acid, 2-amino-5-[(4-amino-3-sulfophenyl)(4-imino-3-sulfo-2,5-cyclohexadien-1-ylidene)methyl]-3-methyl-, disodium salt;
CAS no.	3244-88-0

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Component 4.

1. Formaldehyde

Concentration <= 8 % (volume)

Other names / synonyms Formaldehyde (gas)

EC no. 200-001-8

CAS no. 50-00-0

Index no. 605-001-00-5

- Carcinogenicity (chapter 3.6), Cat. 1B
- Germ cell mutagenicity (chapter 3.5), Cat. 2
- Acute toxicity, inhalation (chapter 3.1), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 3
- Acute toxicity, oral (chapter 3.1), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Sensitization - skin (chapter 3.4), Cat. 1

H301 Toxic if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H331 Toxic if inhaled
H341 Suspected of causing genetic defects [route]
H350 May cause cancer [route]
SCLs/M-factors/ATEs STOT SE 3; H335: C ≥ 5 %
Skin Corr. 1B; H314: C ≥ 25 %
Skin Irrit. 2; H315: 5 % ≤ C < 25 %
Eye Irrit. 2; H319: 5 % ≤ C < 25 %
Skin Sens. 1; H317: C ≥ 0,2 %

2. Acetic acid

Concentration <= 5 % (volume)

Concentration <= 1 % (volume)

Other names / synonyms acetic acid; ACETIC ACID; ACETIC ACID, GLACIAL; ACETICACID; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID

EC no. 200-580-7

CAS no. 64-19-7

Index no. 607-002-00-6

- Flammable liquids (chapter 2.6), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage
SCLs/M-factors/ATEs Skin Corr. 1A; H314: C ≥ 90 %
Skin Corr. 1B; H314: 25 % ≤ C < 90 %
Skin Irrit. 2; H315: 10 % ≤ C < 25 %
Eye Irrit. 2; H319: 10 % ≤ C < 25 %

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3. Methyl alcohol

Concentration <= 2 % (volume)

Other names / synonyms CARBINOL; COLONIAL SPIRIT; COLUMBIAN SPIRIT; Methanol; METHYL HYDROXIDE; METHYLALCOHOL; METHYLOL; MONOHYDROXYMETHANE; NA 1230 (DOT); PYROXYLIC SPIRIT; RCRA WASTE NUMBER U154; UN 1230 (DOT); WOOD ALCOHOL; WOOD NAPHTHA; WOOD SPIRIT

EC no. 200-659-6

CAS no. 67-56-1

Index no. 603-001-00-X

- Flammable liquids (chapter 2.6), Cat. 2
- Acute toxicity, inhalation (chapter 3.1), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 3
- Acute toxicity, oral (chapter 3.1), Cat. 3
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1

H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled
H370 Causes damage to organs [organs, route]
SCLs/M-factors/ATEs *
STOT SE 1; H370: C ≥ 10 %
STOT SE 2; H371: 3 % ≤ C < 10 %

4. Picric acid

Concentration <= 1 % (volume)

Other names / synonyms Phenol, 2,4,6-trinitro-;

EC no. 201-865-9

CAS no. 88-89-1

Index no. 609-009-00-X

- Explosives (chapter 2.1), Division 1.1
- Acute toxicity, inhalation (chapter 3.1), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 3
- Acute toxicity, oral (chapter 3.1), Cat. 3

H201 Explosive; mass explosion hazard
H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled

Component 5.

1. Phosphomolybdic acid Hydrate

Concentration <= 2 % (weight)

CAS no. 51429-74-4

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2. Phosphotungstic Acid Hydrate

Concentration <= 2 % (weight)
CAS no. 12501-23-4

Component 6.

1. Alcohol

Concentration <= 95 % (volume)

Other names / synonyms ABSOLUTE ETHANOL; ALCOHOL DEHYDRATED; ALCOHOL, ANHYDROUS; Alcoholum / ethanolum; ALGRAIN; ANHYDROL; COLOGNE SPIRIT; COLOGNE SPIRITS (ALCOHOL); Ethanol; ETHANOL 200 PROOF; ETHANOL SOLUTION; ETHYL ALCOHOL; ETHYL ALCOHOL ANHYDROUS; ETHYL HYDRATE; ETHYL HYDROXIDE; FERMENTATION ALCOHOL; GRAIN ALCOHOL; JAYSOL; JAYSOL S; METHYLCARBINOL; MOLASSES ALCOHOL; NCI-C03134; POTATO ALCOHOL; SD ALCOHOL 23-HYDROGEN; SPIRIT; SPIRITS OF WINE; TECSOL; UN 1170

EC no. 200-578-6
CAS no. 64-17-5
Index no. 603-002-00-5

- Flammable liquids (chapter 2.6), Cat. 2

H225 Highly flammable liquid and vapor

2. Isopropyl alcohol

Concentration <= 5 % (volume)

Other names / synonyms 2-HYDROXYPROPANE; 2-Propanol; 2-PROPYL ALCOHOL; ALCOJEL; ALCOSOLVE; ALCOSOLVE 2; AVANTIN; AVANTINE; CHROMAR; COMBI-SCHUTZ; DIMETHYLCARBINOL; HARTOSOL; IMSOL A; ISOHOL; Isopropanol; LUTOSOL; N-PROPAN-2-OL; PETROHOL; PRO; PROPAN-2-OL; Propan-2-ol, isopropanol; PROPOL; reaction mass of: bis(1S,2S,4S)-(1-benzyl-4-tert-butoxycarboxamido-2-hydroxy-5-phenyl)pentyl ammonium succinate; SEC-PROPYL ALCOHOL; SPECTRAR; STERISOL HAND DISINFECTANT; TAKINEOCOL; UN 1219

EC no. 414-810-0
CAS no. 67-63-0
Index no. 607-403-00-6

- Flammable liquids (chapter 2.6), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 1
- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

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H225	Highly flammable liquid and vapor
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

3. HEMATOXYLIN

Concentration	<= 1 % (weight)
Other names / synonyms	Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, cis-(++)-;
CAS no.	517-28-2

Component 7

1. Ferric chloride

Concentration	<= 1 % (weight)
Other names / synonyms	Iron (III), chloride, hexahydrate; Iron trichloride
CAS no.	10025-77-1

2. Hydrochloric acid

Concentration	<= 1 % (volume)
Other names / synonyms	Acidum hydrochloricum; HYDROCHLORIC ACID; Hydrogen chloride
EC no.	231-595-7
CAS no.	7647-01-0
Index no.	017-002-01-X

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1B

H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
SCLs/M-factors/ATEs	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
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If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Personal protective equipment for first-aid responders	Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

Methanol: Carbon oxides

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

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Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 50-00-0 (EC: 200-001-8)

Formaldehyde

; ; 0.75 ppm; ACGIH: 0.3 ppm PEL-C inhalation; NIOSH: 0.1 ppm PEL-C inhalation; 0.016 ppm PEL-TWA inhalation

CAS: 500-00-0 (EC: 200-001-8)

Formaldehyde

CAS: 64-17-5

Alcohol

ACGIH (USA): (ST) 1000 ppm TLV® inhalation; Cal/OSHA: 1000 ppm PEL inhalation; NIOSH: 1000 ppm REL inhalation; OSHA: 1000 ppm PEL inhalation; 1900 mg/m3 PEL inhalation

CAS: 64-19-7 (EC: 200-580-7)

Acetic acid

ACGIH (USA): 15 ppm STEL inhalation; 10 ppm, (ST) 15 ppm TLV® inhalation; 10 ppm TWA inhalation; Cal/OSHA (USA): 40 ppm C inhalation; 10 ppm, (ST) 15 ppm, (C) 40 ppm PEL inhalation; 10 ppm, 25 mg/m3 PEL inhalation; 15 ppm, 37 mg/m3 STEL inhalation; NIOSH (USA): 10 ppm, (ST) 15 ppm REL inhalation; 15 ppm, 37 mg/m3 ST inhalation; 10 ppm, 25 mg/m3 TWA inhalation; OSHA (USA): 25 mg/m3 PEL inhalation; 10 ppm PEL inhalation; 10 ppm, 25 mg/m3 TWA inhalation

CAS: 67-56-1 (EC: 200-659-6)

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Methyl alcohol

ACGIH: 200 ppm TLV® inhalation; 250 ppm (ST) TLV® inhalation; Cal/OSHA: 1000 ppm PEL-C inhalation; 250 ppm PEL-ST inhalation; 200 ppm PEL-TWA inhalation; NIOSH: 250 ppm PEL-ST inhalation; 200 ppm REL-TWA inhalation; OSHA: 200 ppm, 260 mg/m³ PEL-TWA inhalation

CAS: 67-63-0

Isopropyl alcohol

ACGIH (USA): 200 ppm, (ST) 400 ppm TLV® inhalation; Cal/OSHA: 400 ppm, (ST) 500 ppm PEL inhalation; NIOSH: 400 ppm, (ST) 500 ppm REL inhalation; OSHA: 400 ppm PEL inhalation; 980 mg/m³ PEL inhalation

CAS: 7647-01-0

Hydrochloric acid

Cal/OSHA: (C) 5 ppm PEL inhalation; NIOSH: (C) 5 ppm REL inhalation; OSHA: (C) 5 ppm PEL inhalation; (C) 7 mg/m³ PEL inhalation

CAS: 88-89-1

Picric acid

Cal/OSHA: 0.1 mg/m³ PEL inhalation; NIOSH: 0.1 mg/m³, (ST) 0.3 mg/m³ REL inhalation; OSHA: 0.1 mg/m³ PEL inhalation

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available

Control banding approach

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Appearance	Clear
Color	Varies
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

10.5 Incompatible materials

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Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Isopropanol: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

The ATE (dermal) of the mixture is: 2727.27 mg/kg bw

The ATE (gas inhalation) of the mixture is: 6363.64 ppmV

The ATE (vapor inhalation) of the mixture is: 27.27 mg/l

The ATE (oral) of the mixture is: 909.09 mg/kg bw

Methanol

LD50 Oral - Rat - 1,187 - 2,769 mg/kg

Acetic acid

LD50 Oral - Rat - 3,310 mg/kg

Skin corrosion/irritation

Acetic acid

LD50 Skin - Rat - 1,112 mg/kg

ETHANOL

LD50 Skin - Rabbit - 15,800 mg/kg

ETHANOL

OECD Test Guideline 404 Skin - Rabbit - 24 h

Result: No skin irritation

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ISOPROPANOL

LD50 Skin - Rabbit - 12,800 mg/kg

Methanol

LD50 Skin - Rabbit - 17,100 mg/kg

Serious eye damage/irritation

ETHANOL

OECD Test Guideline 405 Eyes - Rabbit

Result: Moderate eye irritation

Respiratory or skin sensitization

Acetic acid

LC50 Inhalation - Mouse - 5620 ppm - 1 h

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

Acetic acid

LC50 Inhalation - Rat - 11.4 mg/l - 4 h

ETHANOL

LD50 Inhalation - Rat - 30,000 mg/l - 4 h

ISOPROPANOL

LC50 Inhalation - Rat - 16000 ppm - 8 h

Methanol

LD50 Inhalation - Rat - 128.2 mg/l - 4 h

Methanol

LD50 Inhalation - Rat - 87.6 mg/l - 6 h

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

Formaldehyde

Remarks: IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

NTP: Known to be human carcinogen (Formaldehyde)

OSHA: OSHA specifically regulated carcinogen (Formaldehyde)

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

Acetic acid

LC50 Inhalation - Mouse - 5620 ppm - 1 h

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Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

Acetic acid

LC50 Inhalation - Rat - 11.4 mg/l - 4 h

ETHANOL

LD50 Inhalation - Rat - 30,000 mg/l - 4 h

ISOPROPANOL

LC50 Inhalation - Rat - 16000 ppm - 8 h

Methanol

LD50 Inhalation - Rat - 128.2 mg/l - 4 h

Methanol

LD50 Inhalation - Rat - 87.6 mg/l - 6 h

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Acetic acid

LC50 - Oncorhynchus mykiss (rainbow trout) - >1,000 mg/l - 96 h

Citation: (OECD Test Guideline 203)

Acetic acid

EC50 - Daphnia magna (water flea) - >300.82 mg/l - 48 h

Citation: (OECD Test Guideline 202)

ETHANOL

LC50 - Pimephales promelas (fathead minnow) - 14,200 mg/l - 96 h

ETHANOL

LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l - 48 h

ISOPROPANOL

LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h

ISOPROPANOL

EC50 - Daphnia magna (water flea) - 5,102.00 mg/l - 24 h

ISOPROPANOL

EC50 - Daphnia magna (water flea) - 6,851 mg/l - 24 h

ISOPROPANOL

EC50 - Desmodemus subspicatus (chodat) - > 2,000.00 mg/l - 72 h

ISOPROPANOL

EC50 - Algae - > 1,000.00 mg/l - 24 h

Methanol

LC50 - Lepomis macrochirus (bluegill) - 15.400 mg/l - 96 h

Safety Data Sheet

Trichrome Stain Kit (OSHA)

Methanol
NOEC - *Oryzias latipes* - 7.900 mg/l - 200 h

Methanol
EC50 - *Daphnia magna* (water flea) - >10,000 mg/l - 48 h

Methanol
EC50 - *Selenastrum capricornutum* (green algae) - 22,000 mg/l - 96 h

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging disposal

Dispose of as unused product.

Waste treatment

No data available

Sewage disposal

Do not let product enter drains

Other disposal recommendations

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN3316

Class: 9

Packing Group:

Proper Shipping Name: Chemical kits

Reportable quantity (RQ):

Marine pollutant:

Safety Data Sheet

Trichrome Stain Kit (OSHA)

Poison inhalation hazard:

IMDG

UN Number: UN3316

Class: 9

Packing Group:

EMS Number:

Proper Shipping Name: Chemical kits

IATA

UN Number: UN3316

Class: 9

Packing Group:

Proper Shipping Name: Chemical kits

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

Chemical name: Formaldehyde

CAS number: 50-00-0

01/01/1988 - Cancer

State of California to cause birth defects or other reproductive harm.

Methanol

CAS-No. 67-56-1

Chemical name: Methanol

CAS number: 67-56-1

03/16/2012 - Developmental toxicity

WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. 64-17-5: Ethanol

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

CAS-No. 64-17-5: Ethanol

Canadian Domestic Substances List (DSL)

Chemical name: Acetic acid

CAS: 64-19-7

Chemical name: Benzenesulfonic acid, aminomethyl[[4-[(sulfophenyl)amino]phenyl][4-[(sulfophenyl)imino]-2,5-cyclohexadien-1-ylidene]methyl]-, disodium salt

CAS: 28631-66-5

Chemical name: Benzenesulfonic acid, 2-[(2-hydroxy-1-naphthalenyl)azo]-5-[(4-sulfophenyl)azo]-, disodium salt

CAS: 4196-99-0

Chemical name: Benzenesulfonic acid,

2-amino-5-[(4-amino-3-sulfophenyl)(4-imino-3-sulfo-2,5-cyclohexadien-1-ylidene)methyl]-3-methyl-, disodium salt

CAS: 3244-88-0

Chemical name: Formaldehyde

Safety Data Sheet

Trichrome Stain Kit (OSHA)

CAS: 50-00-0

Chemical name: Methanol
CAS: 67-56-1

Chemical name: Phenol, 2,4,6-trinitro-
CAS: 88-89-1

Chemical name: Ethanol
CAS: 64-17-5

Chemical name: 2-Propanol
CAS: 67-63-0

Chemical name: Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, cis-(++)-
CAS: 517-28-2

Chemical name: Hydrochloric acid
CAS: 7647-01-0

Massachusetts Right To Know Components

Acetic acid
CAS number: 64-19-7

Chemical name: Formaldehyde
CAS number: 50-00-0

Chemical name: Methanol
CAS number: 67-56-1

Chemical name: Picric acid
CAS number: 88-89-1

Chemical name: Ethanol
CAS number: 64-17-5

Isopropyl alcohol
CAS number: 67-63-0

Chemical name: Hydrochloric acid
CAS number: 7647-01-0

New Jersey Right To Know Components

Acetic acid
CAS number: 64-19-7

Common name: FORMALDEHYDE
CAS number: 50-00-0

Chemical name: Methanol
CAS number: 67-56-1

Common name: 2,4,6-TRINITROPHENOL
CAS number: 88-89-1

Safety Data Sheet

Trichrome Stain Kit (OSHA)

Common name: ETHYL ALCOHOL
CAS number: 64-17-5

Isopropyl alcohol
CAS number: 67-63-0

Common name: HYDROGEN CHLORIDE
CAS number: 7647-01-0

Pennsylvania Right To Know Components

Acetic acid
CAS number: 64-19-7

Chemical name: Formaldehyde
CAS number: 50-00-0

Chemical name: Methanol
CAS number: 67-56-1

Chemical name: Phenol, 2,4,6-trinitro-
CAS number: 88-89-1

Chemical name: Ethanol
CAS number: 64-17-5

Isopropyl alcohol
CAS number: 67-63-0

Chemical name: Hydrochloric acid
CAS number: 7647-01-0

SARA 302 Components

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

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

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.

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl alcohol
CAS number: 67-63-0

15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

HMIS Rating

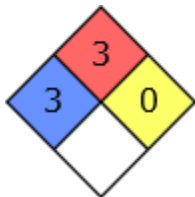
Trichrome Stain Kit (OSHA)	
HEALTH	3
FLAMMABILITY	3

Safety Data Sheet

Trichrome Stain Kit (OSHA)

PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

NFPA Rating



SECTION 16: Other information

SDS-0081 Rev. B

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Diagnostic BioSystems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Diagnostic BioSystems has been advised of the possibility of such damages.