

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 10/20/2020

Reviewed on 10/20/2020

## 1 Identification

- · Product Identifier
- · Trade Name: Modified Trichrome Stain Decolorizer/Counterstain
- · Product Number: 7842M, 7843, 1951
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: No further relevant information available.
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: Scientific Device Laboratory
- 411 Jarvis Avenue Des Plaines, IL 60018 847-803-9495

• *Emergency telephone number:* For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) Identification

· Classification of the substance or mixture:

Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · Hazard pictograms:



- · Signal word: Danger
- *Hazard-determining components of labeling:* Ethanol
- · Hazard statements:
- H225 Highly flammable liquid and vapor.
- H315+H320 Causes skin and eye irritation.
- H335 May cause respiratory irritation.
- · Precautionary statements:
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- 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.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.



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P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P302+P352	If on skin: Wash with plenty of water.	
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	
	easy to do. Continue rinsing.	
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Unknown acute toxicity:		

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



Health = 1 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

## 3 Composition/Information on Ingredients

· Chemical characterization: Substance

· Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components: CAS: 64 17 5 Ethonol

CAS: 64-17-5	Ethanol
RTECS: KQ 6300000	🍓 Flam. Liq. 2, H225; ᢤ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320
CAS: 64-19-7	Acetic Acid
RTECS: AF 1225000	🍓 Flam. Liq. 3, H226; 🍕 Skin Corr. 1A, H314; 🐉 Acute Tox. 4, H312; Acute Tox. 4, H332

## · Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

## 4 First-Aid Measures

· Description of first aid measures

- General information: If symptoms persist, call a physician.
- After inhalation: In case of unconsciousness place patient stably in the side position for transportation.



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#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation occurs, consult a doctor.
- · After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

- If eye irritation occurs, consult a doctor.
- After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

## 5 Fire-Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## 6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures:
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Dispose of the collected material according to regulations.

• Reference to other sections:

See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## · Protective Action Criteria for Chemicals

· PAC-1:		
64-17-5	Ethanol	1,800 ppm
64-19-7	Acetic Acid	5 ppm
· PAC-2:		
64-17-5	Ethanol	3300* ppm
64-19-7	Acetic Acid	35 ppm
· PAC-3:		
64-17-5	Ethanol	15000* ppm
64-19-7	Acetic Acid	250 ppm
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## 7 Handling and Storage

- · Handling
- *Precautions for safe handling:* Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect from heat.
   Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- · Specific end use(s): No further relevant information available.

## 8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

#### 64-17-5Ethanol

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

### · Exposure controls:

- · Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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#### · Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

## • Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves. • *Eye protection:* 



Tightly sealed goggles

· Limitation and supervision of exposure into the environment: None

## 9 Physical and Chemical Properties

Information on basic physical and chemical properties
 Constal Information

· Appearance:	
Form:	Liquid
Color:	Blue
· Odor: · Odor threshold:	Characteristic Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Not determined. ≥78 °C (≥172.4 °F)
· Flash point:	≥13 °C (≥55.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	≥3.5 Vol % ≤15 Vol %
· Vapor pressure @ 20 °C (68 °F):	≤59 hPa (≤44.3 mm Hg)
· Density @ 20 °C (68 °F):	0.8123 g/cm³ (6.7786 lbs/gal)
· Relative density: · Vapor density:	Not determined. Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with:	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
· Viscosity: Dynamic:	Not determined. (Contd. on page 6)



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Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	94.8 %
VOC content:	94.75 %
	803.9 g/l / 6.71 lb/gal
<ul> <li>Other information:</li> </ul>	No further relevant information available.

· Other information:

### 10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Product is stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Heat, flame and ignition sources.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological Information

Information on toxicological effects:

· Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 64-17-5Ethanol Oral LD50 7,060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence Inhalative LC50/4 h 20,000 mg/l (Rat) LC50/96 hours 12,900-15,300 mg/l (Trout) · Primary irritant effect:

· On the skin: Irritant to skin and mucous membranes.

· On the eye: Irritating effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- · Carcinogenic categories:
- IARC (International Agency for Research on Cancer):
- Group 1 Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

The IARC (the International Agency for Research on Cancer) concluded that ethanol found alcoholic beverages to be Group 1 - Carcinogenic to humans. All other instances it is not consider carcinogenic.

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64-17-5	Ethanol
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7220-79-3 3,7-bis(N,N-dimethylamino)phenothiazin-5-iumchloride trihydrate

· NTP (National Toxicology Program):

None of the ingredients are listed.

## · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

# 12 Ecological Information

## · Toxicity:

· Aquatic toxicity:

64-17-5Ethanol

EC50 34,900 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- *Bioaccumulative potential:* No further relevant information available.
- *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

## 13 Disposal Considerations

- · Waste treatment methods
- · *Recommendation:* Observe all federal, state and local environmental regulations when disposing of this material.
- · Uncleaned packaging
- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport Information

- · UN-Number:
- · DOT, ADR/ADN, IMDG, IATA
- UN proper shipping name:
- DOT
- · ADR/ADN
- ·IMDG
- · IATA
- Transport hazard class(es):
- ·DOT



· Class:

UN1987

Alcohols, n.o.s. (Ethanol) UN1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL)) ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL)) ALCOHOLS, N.O.S. (ETHANOL)

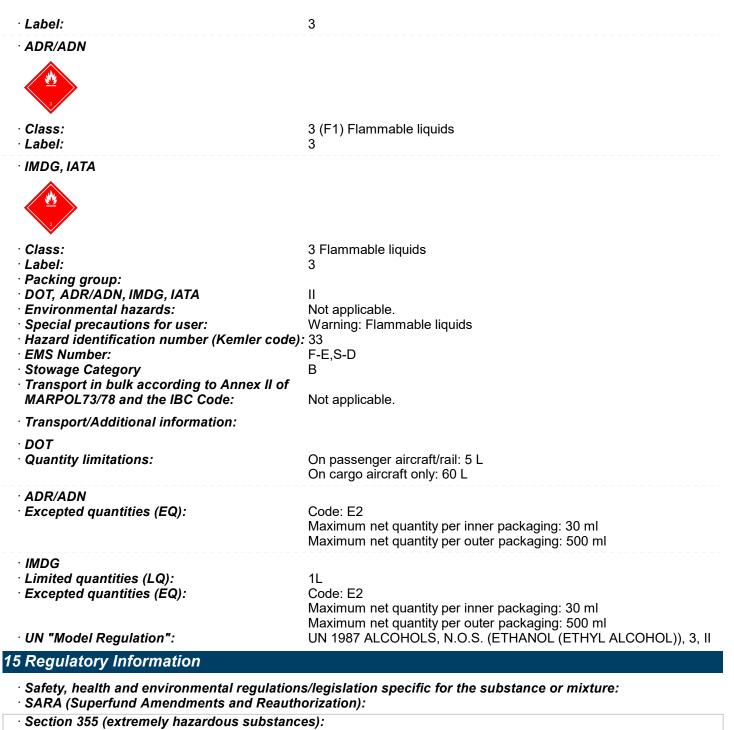


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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

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64-17-5	Ethanol	ACTIVE
7732-18-5	Water, distilled water, deionized water	ACTIVE
64-19-7	Acetic Acid	ACTIVE
Hazardous	Air Pollutants	/
None of the	e ingredients are listed.	
California	Proposition 65:	
Chemicals	known to cause cancer:	
None of the	e ingredients are listed.	
Chemicals	known to cause reproductive toxicity for females:	
None of the	e ingredients are listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	e ingredients are listed.	
Chemicals	known to cause developmental toxicity:	
	e ingredients are listed.	
New Jerse	y Right-to-Know List:	
64-17-5 Et		
64-19-7 A	cetic Acid	
New Jerse	y Special Hazardous Substance List:	
64-17-5 Et		CA, MU, TE, F
64-19-7 A	cetic Acid	CO, F2
Pennsylva	nia Right-to-Know List:	
64-17-5 Et	-	
64-19-7 A	cetic Acid	
Pennsylva	nia Special Hazardous Substance List:	
64-19-7 A	-	I
Carcinoge	nic categories:	
-	ronmental Protection Agency):	
•	e ingredients are listed.	
	shold Limit Value established by ACGIH):	
64-17-5 Et	<b>-</b> <i>i</i>	A
	(National Institute for Occupational Safety and Health) e ingredients are listed.	<i>j</i> :
	, ingredients are listed.	



· Signal word: Danger

· Hazard-determining components of labeling: Ethanol



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H225 High	ly flammable liquid and vapor.	
H315+H320 Caus	ses skin and eye irritation.	
H335 May	cause respiratory irritation.	
· Precautionary st	tatements:	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
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.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P302+P352	If on skin: Wash with plenty of water.	
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
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	easy to do. Continue rinsing.	
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· National regulat	ions:	

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of last revision/ revision number: 10/20/2020 / 1

#### · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



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NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 \* **\* Data compared to the previous version altered.** SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106