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SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Hematoxylin & Eosin Stain Kit

Product code : H-3502

Kit component : Hematoxylin, Mayer's (Modifed)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

1.3. Supplier

Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560

U.S.A

T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

1.4. Emergency telephone number

Emergency number : US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Causes skin irritation
Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes skin irritation

Causes serious eye damage

Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

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.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Aluminum Sulfate, Octadecahydrate	CAS-No.: 7784-31-8	≤ 5
acetic acid %	CAS-No.: 64-19-7	≤ 2
Haematoxylin	CAS-No.: 517-28-2	≤ 1

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hematoxylin, Mayer's (Modifed)		
No additional information available		
acetic acid % (64-19-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Acetic acid	
ACGIH OEL TWA [ppm]	10 ppm	
ACGIH OEL STEL [ppm]	15 ppm	
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Acetic acid	
OSHA PEL TWA [1]	25 mg/m³	
OSHA PEL TWA [2]	10 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Haematoxylin (517-28-2)		
No additional information available		

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Aluminum Sulfate, Octadecahydrate (7784-31-8)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Oxidizing properties





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color Purple Odorless Odor

Odor threshold No data available рΗ No data available Melting point Not applicable Freezing point No data available : No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure No data available Relative vapor density at 20 °C : No data available No data available Relative density Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties : No data available

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: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

acetic acid % (64-19-7)		
LD50 oral rat	3310 mg/kg body weight Animal: rat, Remarks on results: other:	
LD50 dermal rabbit	1060 mg/kg Source: HSDB, NITE	
LC50 Inhalation - Rat [ppm]	16000 ppm Source: ChemIDPlus	
ATE US (oral)	3310 mg/kg body weight	
ATE US (dermal)	1060 mg/kg body weight	
ATE US (gases)	16000 ppmV/4h	
Haematoxylin (517-28-2)		
LD50 oral rat	≥ 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: not determinable due to absence of adverse toxic effects	
ATE US (oral)	500 mg/kg body weight	
Aluminum Sulfate, Octadecahydrate (7784-31-8)		
LD50 oral rat	9000 mg/kg Source: ChemIDPlus	
ATE US (oral)	9000 mg/kg body weight	
Skin corrosion/irritation Serious eye damage/irritation	: Causes skin irritation. : Causes serious eye damage.	

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

acetic acid ... % (64-19-7)

NOAEL (oral,rat,90 days) 290 mg/kg body weight Animal: rat, Animal sex: male

Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

acetic acid % (64-19-7)		
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna	
LC50 - Fish [2]	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna	
Haematoxylin (517-28-2)		
LC50 - Fish [1]	> 35 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	≈ 29.7 mg/l Test organisms (species): Daphnia magna	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

acetic acid % (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: ECHA

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

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14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) Not applicable Packing group (IMDG) Not applicable Not applicable Packing group (IATA)

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

CAS-No. 7784-31-8 ≤ 5% Aluminum Sulfate, Octadecahydrate

acetic acid ... % (64-19-7)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ 5000 lb

15.2. International regulations

No additional information available

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
acetic acid %(64-19-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Glycerol (glycerin, glycerine)(56-81-5)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Hematoxylin & Eosin Stain Kit

Product code : H-3502 Kit component : Bluing Reagent

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

1.3. Supplier

Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560

U.S.A

T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

1.4. Emergency telephone number

Emergency number : US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Causes skin irritation
Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes skin irritation

Causes serious eye irritation

Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.

Wear protective gloves, eye protection.

If on skin: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
sodium hydroxide, caustic soda	CAS-No.: 1310-73-2	≤ 1

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Bluing Reagent	
No additional information available	
sodium hydroxide, caustic soda (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium hydroxide
ACGIH OEL C	2 mg/m³
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Sodium hydroxide
OSHA PEL TWA [1]	2 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear
Color : Colorless
Odor : Odorless

Odor threshold : No data available

: 8.9 – 9.1 рΗ Melting point Not applicable Freezing point No data available No data available Boiling point No data available Flash point Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not applicable. Vapor pressure No data available Relative vapor density at 20 °C No data available : No data available Relative density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosion limits** No data available Explosive properties No data available Oxidizing properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

sodium hydroxide, caustic soda (1310-73-2)	
LD50 dermal rabbit	325 mg/kg Source: ECHA
ATE US (dermal)	325 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 8.9 - 9.1

Serious eye damage/irritation : Causes serious eye irritation.

pH: 8.9 – 9.1

Respiratory or skin sensitization : Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified No data available Viscosity, kinematic

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

sodium hydroxide, caustic soda (1310-73-2)	
LC50 - Fish [1]	45.4 mg/l (96 h, Salmo gairdneri)
EC50 - Crustacea [1]	40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect)

12.2. Persistence and degradability

sodium hydroxide, caustic soda (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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12.3. Bioaccumulative potential

sodium hydroxide, caustic soda (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88 Source: SRC
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

sodium hydroxide, caustic soda (1310-73-2)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the component(s) available.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable Packing group (IMDG) : Not applicable : Not applicable Packing group (IATA)

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

No data available

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IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

sodium hydroxide, caustic soda (1310-73-2)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
sodium hydroxide, caustic soda(1310-73-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Hematoxylin & Eosin Stain Kit

Product code : H-3502

Kit component : Eosin Y Solution (Modified)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

1.3. Supplier

Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560

U.S.A

T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

1.4. Emergency telephone number

Emergency number : US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2

Skin sensitization, Category 1

Highly flammable liquid and vapor

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : Highly flammable liquid and vapor

Causes skin irritation

May cause an allergic skin reaction Causes serious eye irritation

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment. Use explosion-proof electrical equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mist, spray, vapors.

Wash hands, forearms and face thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, eye protection.

If on skin: Wash with plenty of soap and water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

In case of fire: Use D-powder, carbon dioxide (CO2), alcohol resistant foam, extinguishing

powder, foam to extinguish.

Store in a well-ventilated place. Keep cool.

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

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
ethanol, ethyl alcohol	CAS-No.: 64-17-5	55 – 65
propan-2-ol, isopropyl alcohol, isopropanol	CAS-No.: 67-63-0	≤ 3.8
acetic acid %	CAS-No.: 64-19-7	≤ 1
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate	CAS-No.: 17372-87-1	≤ 0.25

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and

eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal

protective equipment. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Fasin V Osladian (M. 195. 1)		
Eosin Y Solution (Modified)		
No additional information available		
ethanol, ethyl alcohol (64-17-5)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Ethanol	
ACGIH OEL STEL [ppm]	1000 ppm	
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Ethyl alcohol (Ethanol)	
OSHA PEL TWA [1]	1900 mg/m³	
OSHA PEL TWA [2]	1000 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
propan-2-ol, isopropyl alcohol, isopropan	ol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits		
Local name	2-Propanol	
ACGIH OEL TWA [ppm]	200 ppm	
ACGIH OEL STEL [ppm]	400 ppm	
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	2-PROPANOL	
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Isopropyl alcohol	
OSHA PEL TWA [1]	980 mg/m³	
OSHA PEL TWA [2]	400 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
acetic acid % (64-19-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Acetic acid	
ACGIH OEL TWA [ppm]	10 ppm	

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acetic acid % (64-19-7)	
ACGIH OEL STEL [ppm]	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Acetic acid
OSHA PEL TWA [1]	25 mg/m³
OSHA PEL TWA [2]	10 ppm
egulatory reference (US-OSHA) OSHA Annotated Table Z-1	
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate (17372-87-1)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Orange red Odor Alcohol-like Odor threshold : No data available рΗ : No data available Melting point : Not applicable Freezing point : No data available

Boiling point : > 190 °F (estimated value) Flash point : < 74 °F (estimated value)

Relative evaporation rate (butyl acetate=1) : No data available

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Flammability (solid, gas) Not applicable. Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties No data available Oxidizing properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ethanol, ethyl alcohol (64-17-5)		
LD50 oral rat	15010 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560	
ATE US (oral)	8300 mg/kg body weight	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
LD50 oral rat	5840 mg/kg Source: ECHA	
LD50 dermal rabbit	12800 mg/kg Source: ECHA	

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LD50 dermal rabbit LC50 Inhalation - Rat [ppm] ATE US (oral) ATE US (dermal)	3310 mg/kg body weight Animal: rat, Remarks on results: other: 1060 mg/kg Source: HSDB, NITE 16000 ppm Source: ChemIDPlus 3310 mg/kg body weight 1060 mg/kg body weight 16000 ppmV/4h
LD50 dermal rabbit LC50 Inhalation - Rat [ppm] ATE US (oral) ATE US (dermal) ATE US (gases)	1060 mg/kg Source: HSDB, NITE 16000 ppm Source: ChemIDPlus 3310 mg/kg body weight 1060 mg/kg body weight
LC50 Inhalation - Rat [ppm] ATE US (oral) ATE US (dermal) ATE US (gases)	16000 ppm Source: ChemIDPlus 3310 mg/kg body weight 1060 mg/kg body weight
ATE US (oral) ATE US (dermal) ATE US (gases)	3310 mg/kg body weight 1060 mg/kg body weight
ATE US (dermal) ATE US (gases)	1060 mg/kg body weight
ATE US (gases)	
	16000 ppmV/4h
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxox	
-	canthen-9-yl)benzoate (17372-87-1)
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423
	(Acute Oral toxicity - Acute Toxic Class Method)
	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
	Causes skin irritation.
	Causes serious eye irritation.
	May cause an allergic skin reaction.
3 ,	Not classified Not classified
ethanol, ethyl alcohol (64-17-5)	Not diaboniou
, , ,	1 - Carcinogenic to humans
propan-2-ol, isopropyl alcohol, isopropanol (6)	
	3 - Not classifiable
3 1	Not classified
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxox	
	1500 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:
STOT-single exposure : N	Not classified
propan-2-ol, isopropyl alcohol, isopropanol (6	7-63-0)
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure : N	Not classified
ethanol, ethyl alcohol (64-17-5)	
	3200 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
	1730 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
	< 9700 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
	> 9400 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
acetic acid % (64-19-7)	
NOAEL (oral,rat,90 days)	290 mg/kg body weight Animal: rat, Animal sex: male
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxox	canthen-9-yl)benzoate (17372-87-1)
NOAEL (oral,rat,90 days)	1500 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:

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Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

ethanol, ethyl alcohol (64-17-5)		
LC50 - Fish [1]	14.2 g/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	> 10000 mg/l Test organisms (species): Daphnia magna	
ErC50 algae	275 mg/l Source: ECHA	
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas	
acetic acid % (64-19-7)		
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna	
LC50 - Fish [2]	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna	
disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate (17372-87-1)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ethanol, ethyl alcohol (64-17-5)		
Partition coefficient n-octanol/water (Log Pow)	-0.32 Source: ICSC	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC	
acetic acid % (64-19-7)		
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: ECHA	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

DOT NA No : UN1993 UN-No. (IMDG) : 1993 UN-No. (IATA) : 1993

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s. (CONTAINS : ethanol, ethyl alcohol)
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S. (CONTAINS : ethanol; ethyl alcohol)
Proper Shipping Name (IATA) : Flammable liquid, n.o.s. (CONTAINS : ethanol; ethyl alcohol)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

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14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1993

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when

the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

IMDG

Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28, TP8

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER

Stowage category (IMDG) : B

IATA

· F2 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) Y341 PCA limited quantity max net quantity (IATA) 11 PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 · 60I CAO max net quantity (IATA) Special provision (IATA) : A3 ERG code (IATA) : 3H

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

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Subject to reporting requirements of United States SARA Section 313

acetic acid % (64-19-7)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb

15.2. International regulations

ethanol, ethyl alcohol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
ethanol, ethyl alcohol(64-17-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
propan-2-ol, isopropyl alcohol, isopropanol(67-63-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
acetic acid %(64-19-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Custom_SDS_USA_VECTOR

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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