

SAFETY DATA SHEET

Issuing Date 29-Nov-2012 Revision Date 08-Jan-2016 Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Histochoice Tissue Fixative w/ Alcohol 1X Low pH

Other means of identification

Product Code(s) H131

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use For Further Manufacturing Use Only.
Uses advised against Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Company AddressManufacturer AddressDistributorVWR International, LLCVWR International, LLCAMRESCO INC.Radnor Corporate Center28600 Fountain Parkway6681 Cochran Road100 Matsonford RoadSolon, Ohio 44139SOLON, OHIO 44139

Radnor, PA 19087-8660

Company Phone Number 1.800.829.2805 E-mail Address info@amresco-inc.com

Emergency Telephone Number

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1A
Carcinogenicity	Category 1A
Flammable liquids	Category 4

Label elements

Emergency Overview

Danger

Hazard statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H350 - May cause cancer

H227 - Combustible liquid



Appearance Colorless haze-free Physical State Liquid Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

IF IN EYES: 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 IF ON SKIN: Wash with plenty of soap and water

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

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not regulated

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Ethanol	64-17-5	200-578-6	20-30	Not applicable
Isopropyl Alcohol	67-63-0	200-661-7	1-5	Not applicable
Glyoxal	107-22-2	203-474-9	0.5-1.0	Not applicable
Diazolidinylurea	78491-02-8	278-928-2	0-0.5	Not applicable

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate to surrounding fire conditions.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Products

No information available.

Explosion Data
Sensitivity to Mechanical Impac

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection Ensure adequate ventilation, especially in confined areas.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Use non-sparking tools and equipment. Absorb with an inert material. Pick up and transfer

to properly labeled containers. Ventilate area and wash spill site after material pickup is

complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	1000 ppm STEL	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm
		Ŭ	TWA: 1900 mg/m ³
Isopropyl Alcohol	400 ppm STEL	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³
			STEL: 500 ppm
			STEL: 1225 mg/m ³
Glyoxal 107-22-2	TWA: 0.1 mg/m ³	-	-
Diazolidinylurea 78491-02-8	- -	-	-

Appropriate engineering controls

Engineering Measures Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Safety glasses with side-shields. **Eye/Face Protection**

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Appearance Colorless haze-free Odor No information available Color No information available **Odor Threshold** No information available

Property Remarks • Method

No information available рH

Melting point/freezing point

Boiling Point/Range No information available Flash Point (High in °C) No information available **Evaporation Rate** No information available No information available Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition Temperature Decomposition Temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive Properties** No information available

Oxidizing Properties No information available

Other Information

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information availableDensityNo information availableBulk DensityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation There is no data available for this product.

Eye Contact Severely irritating to eyes.

Skin Contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
Glyoxal 107-22-2	= 200 mg/kg (Rat)	= 12700 mg/kg (Rabbit)	= 2.44 mg/L (Rat) 4 h
Diazolidinylurea 78491-02-8	= 2600 mg/kg (Rat)	> 2 g/kg(Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic EffectsNo information available.
No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X

64-17-5				
Isopropyl Alcohol	-	Group 3	-	-
67-63-0				
67-63-0 Glyoxal	-	-	-	-
107-22-2				
Diazolidinylurea	-	-	-	-
78491-02-8				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
No information available.
No information available.
No information available.
Nerves, Liver.

Target Organ EffectsNerves, Liver.Aspiration hazardNo information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.12% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Ethanol	-	13400 - 15100: 96 h Pimephales	9268 - 14221: 48 h Daphnia magna
64-17-5		promelas mg/L LC50 flow-through	mg/L LC50 2: 48 h Daphnia magna
		12.0 - 16.0: 96 h Oncorhynchus	mg/L EC50 Static 10800: 24 h
		mykiss mL/L LC50 static 100: 96 h	Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50	
		static	
Isopropyl Alcohol	1000: 96 h Desmodesmus	1400000: 96 h Lepomis	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	macrochirus µg/L LC50 9640: 96 h	EC50
	Desmodesmus subspicatus mg/L	Pimephales promelas mg/L LC50	
	EC50	flow-through 11130: 96 h	
		Pimephales promelas mg/L LC50	
		static	
Glyoxal	500: 72 h Desmodesmus	215: 96 h Pimephales promelas	404: 48 h Daphnia magna mg/L
107-22-2	subspicatus mg/L EC50 500: 96 h	mg/L LC50 static 460 - 680: 96 h	EC50
	Desmodesmus subspicatus mg/L	Leuciscus idus mg/L LC50 static	
	EC50 348.59: 96 h		
	Pseudokirchneriella subcapitata		
	mg/L EC50 static		
Diazolidinylurea	-	-	-
78491-02-8			

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Partition coefficient
Ethanol	-0.32
64-17-5	
Isopropyl Alcohol	0.05
67-63-0	
Glyoxal	-0.85
107-22-2	
Diazolidinylurea	-
78491-02-8	

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Isopropyl Alcohol 67-63-0	-	-	-	-
Glyoxal 107-22-2	-	-	-	-
Sodium Citrate, Dihydrate 6132-04-3	-	-	-	-
Sodium Chloride 7647-14-5	-	-	-	-
Diazolidinylurea 78491-02-8	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ethanol 64-17-5	-	-	-	-
Isopropyl Alcohol 67-63-0	-	-	-	-
Glyoxal 107-22-2	-	-	-	-
Diazolidinylurea 78491-02-8	-	-	-	-

Chemical Name	California Hazardous Waste Status
Ethanol	Toxic; Ignitable
64-17-5	
Isopropyl Alcohol	-
67-63-0	
Glyoxal	-
107-22-2	
Diazolidinylurea	-
78491-02-8	

14. TRANSPORT INFORMATION

DOTNot regulatedIATANot regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Does not Comply
ENCS Does not Comply
IECSC Complies

KECL Does not Comply PICCS Complies Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Ethanol	-
64-17-5 (20-30)	
Isopropyl Alcohol	-
67-63-0 (1-5)	
Glyoxal	-
107-22-2 (0.5-1.0)	
Diazolidinylurea	-
78491-02-8 (0-0.5)	

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethanol 64-17-5	-	-	-	-
Isopropyl Alcohol 67-63-0	-	-	-	-
Glyoxal 107-22-2	-	-	-	-
Diazolidinylurea 78491-02-8	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethanol 64-17-5	-	-	-
Isopropyl Alcohol 67-63-0	-	-	-
Glyoxal 107-22-2	-	-	-
Diazolidinylurea 78491-02-8	-	-	-

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65	
Ethanol - 64-17-5	Carcinogen	
	Developmental	
Isopropyl Alcohol - 67-63-0	-	
Glyoxal - 107-22-2	-	
Diazolidinylurea - 78491-02-8	-	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	Х
Isopropyl Alcohol 67-63-0	X	-	X
Glyoxal 107-22-2	X	-	-
Diazolidinylurea 78491-02-8	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Issuing Date29-Nov-2012Revision Date08-Jan-2016

Revision Note

No information available

Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

End of Safety Data Sheet