Safety Data Sheet

Histology Acid Alcohol

Revision Date 1/1/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Histology Acid Alcohol
Product code: 400681

Supplier: EDM 3, LLC
3611 St Johns Bluff Road, Suite 1
Jacksonville, FL 32224
800-638-2625
Monday-Friday: 8:00 -5:00 PM

Synonym: None.
Material uses: LaboratoryReagent.
Validation date: 1/1/2020
In case of a medical emergency or a spill, call: INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada) or 1-352-323-3500 (International callers may call collect), 24 hours/day, 7 days/week.

2. HAZARDS IDENTIFICATION

Emergency Overview
Danger!



OSHA Hazards
Flammable liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Irritant

Hazard statement(s)
H225: Highly flammable liquid and vapor (Cat 1).
H303: May be harmful if swallowed (Cat 5).
H319: Causes serious eye irritation (Cat 2/2B).

Precautionary statement(s):
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P305+351+338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

GHS Classification
Flammable liquids (Category 2)
Acute toxicity, Oral (Category 5)
Eye irritation (Category 2B)
Specific target organ toxicity - single exposure (Category 1)

HMIS Classification
Health hazard: 2
Flammability: 3

Physical hazards: 0

NFPA Rating
Health hazard: 2
Fire: 3
Reactivity Hazard: 0

Potential Health Effects
Inhalation - Toxic if inhaled. Causes respiratory tract irritation.
Skin - Toxic if absorbed through skin. Causes skin irritation.
Eyes - Causes eye irritation.
Ingestion - Toxic if swallowed.

Target Organs
Nerves, Liver, Heart, Eyes, Kidney, Central nervous system

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by weight
Methanol	67-56-1	~4
Hydrochloric Acid	7647-01-0	3
Isopropanol	67-63-0	~ 4
Ethanol	64-17-563	
Water	7732-18-5	Balance

4. FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammability of the product: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Extinguishing media: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable: Do not use water jet.

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products: Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, metal oxide/oxides

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus(SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walkthrough spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Exposure limits
Methanol	**ACGIH TLV (United States, 3/2012). Absorbed through skin.**
	TWA: 200 ppm 8 hour(s).
	TWA: 262 mg/m^3 8 hour(s).
	STEL: 250 ppm 15 minute(s).
	STEL: 328 mg/m^3 15 minute(s).
	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
	TWA: 200 ppm 8 hour(s).
	TWA: 260 mg/m^3 8 hour(s).
	STEL: 250 ppm 15 minute(s).
	STEL: 325 mg/m^3 15 minute(s).
	NIOSH REL (United States, 1/2013). Absorbed through skin.
	TWA: 200 ppm 10 hour(s).
	TWA: 260 mg/m^3 10 hour(s).
	STEL: 250 ppm 15 minute(s).
	STEL: 325 mg/m^3 15 minute(s).
	OSHA PEL (United States, 6/2010).
	TWA: 200 ppm 8 hour(s).
	TWA: 260 mg/m^3 8 hour(s).

Ethanol	**ACGIH TLV (United States, 3/2012).** STEL: 1000 ppm 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 1900 mg/m^3 8 hour(s). TWA: 1000 ppm 8 hour(s). **NIOSH REL (United States, 1/2013).** TWA: 1000 ppm 10 hour(s). TWA: 1900 mg/m^3 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1000 ppm 8 hour(s). TWA: 1900 mg/m^3 8 hour(s).
Hydrochloric Acid	**ACGIH TLV:**TWA, 5 ppm, STEL1ppm **OSHA PEL:** TWA: 5 ppm, STEL1ppm **NIOSH REL:**TWA: 5 ppm ,STEL1ppm

Consult local authorities for acceptable exposure limits.

Engineering measures:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene
Eyes:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles
Skin:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	**Color:**	Clear
Flash Point:	Open cup: 54°F	**Odor:**	pungent odor.
pH:	Not available.	**Boiling/condensation point:**	148°F.
Melting/freezing point:	Not available.	**Relative density:**	Not available.
Vapor pressure:	Not available.	**Vapor density:**	Not available.
Odor threshold:	Not available.	**Evaporation rate:**	Not available.
VOC:	Not available	**Flammable limits:**	Lower: 6.7% Upper: 36.5%

Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid: Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials, metals and acids.

Hazardous decomposition products: Oxides of carbon

Conditions of reactivity: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials. Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

Isopropanol- Rat, 5,840 mg/kg

HCL- Rabbit, 900 mg/kg

Inhalation LC50

Isopropanol- 6 h, vapor, rat >10,000 ppm

HCL- Rat, 1h 3124 ppm

Dermal LD50

Isopropanol- Rabbit .12,800 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

Irritation can occur

Serious eye damage/eye irritation

Eyes: serious damage

Respiratory or skin sensitization

Dryness, reddening, blistering

Germ cell mutagenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation Toxic if inhaled. Causes respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Warning: contains methanol. May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. Effects Due to ingestion may include:, Gastrointestinal disturbance, Headache, Nausea, Vomiting, Dizziness, Weakness, Confusion, Drowsiness, Unconsciousness. To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1993
Class: 3
Packing group: II
Proper shipping name: Flammable Liquid
Marine pollutant: No
Poison Inhalation Hazard: No
IMDG
UN number: 1993
Class: 3
Packing group: II
EMS-No: F-E, S-D
Proper shipping name: Flammable Liquid
Marine pollutant: No
IATA
UN number: 1993
Class: 3
Packing group: II
Proper shipping name: Flammable Liquid
Marine pollutant: No

15. REGULATORY INFORMATION

United States

HCS Classification: Flammable liquid, Highly toxic material, Irritating material, Target organ effects

U.S. Federal regulations: **TSCA 8(a) IUR**: Partial exemption
United States inventory (TSCA 8b):All components are listed or exempted.
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Ethyl Alcohol; Methanol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
EosinY: Immediate (acute) health hazard; Methanol: Fire hazard, Immediate (acute)

Healthhazard, Delayed (chronic) health hazard; Ethanol: Fire hazard, Immediate (acute) Health hazard, Delayed (chronic) health hazard
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I& II Chemicals (Precursor Chemicals): Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting Requirements:	Methanol	67-56-1	99 - 100
Supplier notification:	Methanol	67-56-1	99 - 100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall\ include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Spill: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: Ethyl Alcohol; Methanol
Minnesota Hazardous Substances: None of the components are listed.
Michigan Critical Material: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New Jersey Spill: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: Ethyl Alcohol; Methanol
New York Toxic Chemical Release Reporting: None of the components are listed.
New York Acutely Hazardous Substances: The following components are listed: Methanol
Pennsylvania RTK Hazardous Substances: The following components are listed: Ethyl Alcohol; Methanol
Rhode Island Hazardous Substances: None of the components are listed.
California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

CANADA
WHMIS (Canada): Class B-2: Flammable liquid.
Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).
Canadian lists: **CEPA Toxic substances**: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Ethanol;Methanol
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL: All components are listed or exempted.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and theMSDS contains all the information required by the Controlled Products Regulations.

International regulations
International lists: **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



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