

SAFETY DATA SHEET



HYDROSOL-1

SDS Revision Date: 05/28/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Identity	Hydrosol-1
Alternate Names	Embalming Chemical, Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Embalming Chemical, Tissue Preservative, Sundry
Application Method	See Technical Data Sheet

1.3 Details of the supplier of the safety data sheet

Company Name	Hydrol Chemical Company, Inc. 520 Commerce Drive Yeadon, PA 19050
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1.4 Emergency telephone number

CHEMTREC (USA)	(800) 424-9300
Customer Service	
Hydrol Chemical Company, Inc.	(800) 345-8200 (610) 622-3603

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Combustible liquid; H227	Combustible liquid.
Acute toxicity 4; H302	Harmful if swallowed.
Acute toxicity 4; H332	Harmful if inhaled.
Skin corrosion 1B; H314	Causes severe skin burns and eye damage.
Eye damage 1; H318	Causes serious eye damage.
Respiratory sensitization 1; H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitivity 1; H317	May cause an allergic skin reaction.
STOT – single exposure 2; H371	May cause damage to organs.
Acute aquatic toxicity 1; H400	Very toxic to aquatic life.
Chronic aquatic toxicity 2; H411	Toxic to aquatic life with long lasting effects.

2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statements:

H227 Combustible liquid.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors, or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response statements:

P301+330+331 IF SWALLOWED: Rinse mouth. Do Not induce vomiting.
P301+312+330 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. Rinse mouth.
P303+361+353 IF ON SKIN (or hair): Remove / Take all contaminated clothing immediately. Rinse skin with water / shower.
P304+340+310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338+310 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor / physician.
P333+313 IF skin irritation or a rash occurs: Get medical advice or attention.
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage statements:

P405 Store locked up.

Disposal statements:

P501 Dispose of contents / container in accordance with local / national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances Regulations.

<u>Ingredient / Chemical Designations</u>	<u>Weight %</u>	<u>GHS Classification</u>	<u>Notes</u>
Glutaraldehyde CAS Number: 0000050-00-0	10 – 20	Acute Toxicity 3; H331 Acute Toxicity 3; H301 Skin Corrosivity 1B; H314 Skin Sensitivity 1; H317	(1)(2)
Isopropyl Alcohol CAS Number: 0000067-63-0	10 – 20	Flammable Liquid 2; H225 Eye Irritant 2; H319 STOT SE 3; H336	(1)(2)
Glycerine CAS Number: 0000056-81-5	1.0 – 10		(1)

(1) Substance classified with a health or environmental hazard.

(2) Substance with a workplace exposure limit.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General:** Move victim to fresh air.
Call 911 or emergency medical service.
Give artificial respiration if victim is not breathing.
Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Administer oxygen if breathing is difficult.
Remove contaminated clothing and shoes.
In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Keep victim warm and quiet.
- Inhalation:** Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
- Eyes:** Irrigate copiously with clean, fresh water for at least 20 minutes, holding eyelids apart, and seek medical attention.
- Skin:** Remove contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Wash off with soap and water. Consult a physician.
- Ingestion:** If substance is swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide, and water fog.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide.

5.3 Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA) if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Water spray may reduce vapor, but may not prevent ignition in closed spaces.

6.2 Environmental precautions

Do not allow spills to enter drains or watercourses.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or use of the toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3 Methods and material for containment and cleanup

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. See Section 2 for further details.

7.2 Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Avoid contact with strong oxidizers / alkalis / mineral acids / phenol and urea. See Section 2 for further details.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Exposure

<u>Ingredient / Chemical Designations</u>	<u>Source</u>	<u>Value</u>
Glutaraldehyde CAS Number: 0000111-30-8	OSHA ACGIH NIOSH Supplier	TWA 0.2 ppm (0.80 mg/m ³) Ceiling TLV 0.05 ppm No data available No established limit
Isopropyl Alcohol CAS Number: 0000067-63-0	OSHA ACGIH NIOSH Supplier	TWA 400 ppm (980 mg/m ³), STEL 500 (1225 mg/m ³) TWA 200 ppm, STEL 400 ppm TWA 400 ppm (980 mg/m ³), STEL 500 ppm (1225 mg/m ³) No established limit
Glycerine CAS Number: 0000056-81-5	OSHA ACGIH NIOSH Supplier	TWA 5 mg/m ³ , STEL 15 mg/m ³ TWA 10 mg/m ³ No data available No established limit

Carcinogen Data

<u>Ingredient / Chemical Designations</u>	<u>Source</u>	<u>Value</u>
Glutaraldehyde CAS Number: 0000111-30-8	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1, 2a, 2b, 3, 4: No
Isopropyl Alcohol CAS Number: 0000067-63-0	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1, 2a, 2b, 4: No Group 3: Yes
Glycerine CAS Number: 0000056-81-5	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1, 2a, 2b, 3, 4: No

8.2 Exposure controls

Respiratory	Not necessary where area is properly ventilated.
Eyes	Wear safety eyewear; safety glasses, goggles, or visors to protect against splashing liquid.
Skin	Wear overalls which cover the body, arms, and legs. Skin should not be exposed. All parts of the body should be washed after contact. Wear PVC, vinyl, nitrile, or latex gloves.
Engineering Controls	Provide adequate ventilation. If the use of local exhaust ventilation is insufficient to maintain vapor levels below occupational exposure limits, suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene. Wash hands before eating, drinking, smoking, or toileting. Promptly remove soiled clothing; wash thoroughly before reuse.

See Section 2 Precautionary Statements for further details.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, water white liquid
Odor	Slightly perfumed
Odor threshold	No data available
pH	7.0 – 9.0
Melting pt. / freezing pt.	No data available
Initial boiling pt. and boiling range	94-96C (201-205°F)
Flash point (TCC)	61-63C (142-146°F)
Evaporation rate (Bu Acetate = 1)	Less than 1
Flammability (solid, gas)	Not applicable
Upper/Lower flammability or explosion limits	Lower explosive limit: 7% Upper explosive limit: 73%
Vapor pressure (Pa)	No data available
Vapor density	Greater than 1
Specific gravity	1.010-1.020
Solubility in water	Complete
Partition coefficient n-octanol/water (log Pow)	No data available
Auto-ignition temperature (C)	No data available
Decomposition temperature (C)	No data available
Viscosity (cps)	No data available

9.2 Other information

No other relevant information.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous polymerization will not occur.

10.2 Chemical stability

Stable under recommended storage/handling conditions. May form formic acid and methanol at elevated temperatures.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid heat and open flame.

10.5 Incompatible materials

Avoid contact with strong oxidizers, strong alkalis, strong mineral acids, phenol and urea.

10.6 Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingredient / Chemical Designations	Oral LD50 (mg/kg)	Skin LD50 (mg/kg)	Inhalation Vapor LD50 (mg/L/4hr)	Inhalation Dust/Mist LD50 (mg/L/4hr)	Inhalation Gas LD50 (ppm)
Glutaraldehyde CAS Number: 0000111-30-8	No data available	No data available	No data available	No data available	No data available
Isopropyl Alcohol CAS Number: 0000067-63-0	4,710.00, Rat - Category: 5	12,800.00, Rat - Category: N/A	72.60, Rat - Category: N/A	No data available	No data available
Glycerine CAS Number: 0000056-81-5	12,600.00, Rat - Category: N/A	>10,000.00, Rabbit -	No data available Category: N/A	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	4	Harmful if swallowed
Acute Toxicity (skin)	-	N/A
Acute Toxicity (inhalation)	4	Harmful if inhaled
Skin Corrosion / Irritation	1B	Causes severe skin burns and eye damage
Eye Damage / Irritation	1	Causes serious eye damage
Sensitization (respiratory)	1	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Sensitization (skin)	1	May cause an allergic skin reaction
Germ Toxicity	-	N/A
Carcinogenicity	-	N/A
Reproductive Toxicity	-	N/A
Specific Target Organ Systemic Toxicity (single exposure)	-	N/A
Specific Target Organ Systemic Toxicity (repeated exposure)	-	N/A
Aspiration Hazard	-	N/A

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Ecotoxicity

Ingredient / Chemical Designations	96 hr LC50 Fish (mg/l)	48 hr EC50 Crustacean (mg/l)	ErC50 Algae (mg/l)
Glutaraldehyde CAS Number: 0000111-30-8	No data available	No data available	No data available
Isopropyl Alcohol CAS Number: 0000067-63-0	1,400.00, Lepomis macrochirus	100.00, Daphnia magna	100.00 (72 hr), Scenedesmus subspicatus
Glycerine CAS Number: 0000056-81-5	No data available	No data available	No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations enacted under the Control of Pollution Act and the Environmental Protection Act.

Using information supplied within this SDS, advice should be obtained from the Waste Regulation Authority whether any special local municipal waste regulations apply.

14. TRANSPORTATION INFORMATION**14.1 Transport Classes****DOT (Domestic Surface Transportation)****DOT Proper Shipping****Name:** Not Regulated**DOT Shipping Class:** N/A**IMO / IMDG (Ocean Transportation)****IMDG Proper Shipping****Name:** Environmentally Hazardous
Substance, Liquid, NOS (Glutaral)**UN Number:** 3082**IMDG Hazard Class:** 9**Packing Group:** III**14.2 Environmental hazards****DOT:** N/A**IMDG:** Marine pollutant: Glutaraldehyde**15. REGULATORY INFORMATION**

Overview The data provided in this section includes select regulations, and is not inclusive of all regulations that may be applicable to this product. All ingredients of this product are listed on the TSCA Inventory, or are not required to be listed.

WHMIS Classification N/A

US EPA Tier II Hazards Fire: No
 Sudden Pressure Release: No
 Reactivity: No
 Immediate Health: No
 Delayed Health: No

EPCRA 311/312 Chemicals and RQ (>0.1%)
Glutaraldehyde (no data available)

EPCRA 302 Extremely Hazardous (>0.1%)
None listed

EPCRA 313 Toxic Chemicals (>0.1%)
Isopropyl Alcohol

Proposition 65 - Carcinogens (>0.1%)
None listed

Proposition 65 - Developmental Toxins (>0.0%)
None listed

Proposition 65 - Female Reproductive Toxins (>0.0%)
None listed

Proposition 65 - Male Reproductive Toxins (>0.0%)
None listed

NJ RTK Substances (>1.0%)
Glutaraldehyde
Isopropyl Alcohol

PA RTK Substances (>1.0%)
Glutaraldehyde
Isopropyl Alcohol

16. OTHER INFORMATION

All information contained herein is based upon data believed to be correct. However, no guarantee, expressed or implied, is made with respect to the information contained within. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to this product. Users of this product must comply with all health and safety laws and regulations applicable.

The full text of the phrases appearing in section 3 is as follows:

H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H314 Causes severe skin burns
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H331 Toxic if inhaled
H336 May cause drowsiness and dizziness

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