

SAFETY DATA SHEET



HY-PHEN 10%

SDS Revision Date: 05/24/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Identity	Hy-Phen 10%
Alternate Names	Disinfectant, Mixture

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

Identified Uses	Disinfecting Chemical, Sundry
Application Method	See Technical Data Sheet or Label

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)	
Skin corrosion 1B; H314	Causes severe skin burns and eye damage.
Eye damage 1; H318	Causes serious eye damage.

2.2 GHS Label elements, including precautionary statements

Pictogram: 

Signal word: **Danger**

Hazard statements:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary statements:

P260 Do not breathe dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

Response statements:

P301/330/331 IF SWALLOWED: Rinse mouth. Do Not induce vomiting.
P303/361/353 IF ON SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin with water/shower.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P310 Immediately call a POISON CENTER or doctor / physician.
P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage statements:

P403+233 Store in a well ventilated space. Keep container tightly closed.
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>
Benzalkonium Chloride CAS Number: 0068424-85-1	8 – 12	Skin Corrosivity 1B; H314 Eye Damage 1; H318	(1)

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

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 and isolate contaminated clothing and shoes.
In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
Keep victim warm and quiet.
Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

- 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 15 minutes, holding eyelids apart, and seek medical attention.
- Skin:** Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Shower and wash with soap and water. Keep victim warm and quiet.
- Ingestion:** **If substance is swallowed, Call Physician Or Poison Control Center For Most Current Information.** . Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS with victim to a health professional.

4.2 Most important symptoms and effects, both acute and delayed

Overview Corrosive effects. Gastrointestinal disturbances. Respiratory depression.

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

No unusual fire or explosion hazards noted.

5.3 Advice for fire-fighters

Wear suitable protective equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of vapors. Wear appropriate personal protective equipment.

6.2 Methods and material for containment and cleanup

Absorb spillage with suitable absorbent material. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

See Section 2 for further details.

7.2 Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

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>
Benzalkonium Chloride CAS Number: 0068424-85-1	OSHA	No data available
	ACGIH	No data available
	NIOSH	No data available
	Supplier	No established limit

Carcinogen Data

<u>Ingredient / Chemical Designations</u>	<u>Source</u>	<u>Value</u>
Benzalkonium Chloride CAS Number: 0068424-85-1	OSHA	Select Carcinogen: No
	NTP	Known: No; Suspected: No
	IARC	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	Odorless, or faint aromatic odor.
Odor threshold	No data available
pH	6.0 – 9.0
Melting pt. / freezing pt.	No data available
Initial boiling pt. and boiling range	No data available
Flash point (TCC)	Not applicable
Evaporation rate (Bu Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Upper/Lower flammability or explosion limits	No data available
Vapor pressure (Pa)	No data available
Vapor density	No data available
Specific gravity	No data available
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.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Avoid contact with strong oxidizers, strong alkalis, strong mineral acids.

10.6 Hazardous decomposition products

Carbon oxides. Incomplete combustion may produce irritating smoke, and/or toxic vapors or gases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents greater than the occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver, and CNS. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the substance may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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)
Benzalkonium Chloride CAS Number: 0068424-85-1	240.00, Rat - Category 4	1420.00, Rat - Category 4	N/A	N/A	N/A

Item	Category	Hazard
Acute Toxicity (mouth)	-	N/A
Acute Toxicity (skin)	-	N/A
Acute Toxicity (inhalation)	-	N/A
Skin Corrosion / Irritation	1B	Causes severe skin burns and eye damage
Eye Damage / Irritation	1	Causes serious eye damage
Sensitization (respiratory)	-	N/A

Sensitization (skin)	-	N/A
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

Harmful to aquatic life.

Aquatic Ecotoxicity

Ingredient / Chemical Designations	96 hr LC50 Fish (mg/l)	48 hr EC50 Crustacean (mg/l)	ErC50 Algae (mg/l)
Benzalkonium Chloride CAS Number: 0068424-85-1	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: Consumer Commodity

DOT Shipping Class: ORM-D

IMO / IMDG (Ocean Transportation)

UN number: UN1760

IMDG Proper Shipping Name:

Corrosive liquid, n.o.s. (Benzalkonium Chloride 10% solution)

IMDG Hazard Class: 8

Packing group: III

14.2 Environmental hazards

DOT: N/A

IMDG:

Marine pollutant: Benzalkonium Chloride

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.

US EPA Tier II Hazards

Fire:	No
Sudden Pressure Release:	No
Reactivity:	No
Immediate Health:	Yes
Delayed Health:	No

EPCRA 311/312 Chemicals and RQ (>0.1%)

None listed

EPCRA 302 Extremely Hazardous (>0.1%)

None listed

EPCRA 313 Toxic Chemicals (>0.1%)

None listed

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%)

Benzalkonium Chloride

PA RTK Substances (>1.0%)

Benzalkonium Chloride

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:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

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