# SAFETY DATA SHEET

### Section 1 lo

Identification

"Cutting edge science for the classroom"

### INNOVATING SCIENCE<sup>®</sup> by Aldon Corporation 221 Rechester Street

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 Page E1 of E2

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product	1% PHENOLPHTHALEIN IN ISOPROPY	LALCOHOL SOLUTION		
Synonyms	1% Phenolphthalein in IPA			
Section 2	Hazards identification			
Pictograms	I: DANGER : GHS02 / GHS07 / GHS08 ns: Central nervous system, Liver, Kidneys		P201: Obtain P202: Do no P210: Keep P233: Keep P240: Grour	ary statement(s): n special instructions before use. t handle until all safety precautions have been read and understood. away from heat/sparks/open flames/hot surfaces. No smoking. container tightly closed. nd/bond container and receiving equipment. xplosion-proof electrical/ventilating/lighting equipment.
GHS Classification: Flammable liquid (Category 2) Eye irritation (Category 2) STOT-SE (Category 2) Mutagenicity (Category 2) Carcinogen (Category 1B) Reproductive toxicity (Category 2)		<ul> <li>P242: Use only non-sparking tools.</li> <li>P243: Take precautionary measures against static discharge.</li> <li>P260: Do not breathe mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> </ul>		
H225: Highly H319: Cause H336: May c H341: Suspe H350: May c	information: Hazard statement(s): y flammable liquid and vapour. es serious eye irritation. :ause drowsiness or dizziness. ected of causing genetic defects. :ause cancer. ected of damaging fertility.		comfortable P305+P351- contact lens P312: Call a P308+P313: P337+P313: P362+P364:	<ul> <li>IF INHALED: Remove person to fresh air and keep in a position for breathing.</li> <li>+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove es, if present and easy to do. Continue rinsing.</li> <li>POISON CENTER or doctor if you feel unwell.</li> <li>IF exposed or concerned: Get medical attention.</li> <li>If eye irritation persists: Get medical attention.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water nguish.</li> </ul>
Health haza	ot otherwise classified: rds not otherwise classified (HHNOC) - Not zards not otherwise classified (PHNOC) - No		P501: Dispo	Store in a well-ventilated place. Keep cool. se of contents/container to a licensed chemical disposal agency in with local/regional/national regulations.
Section 3	Composition / information of	n ingredients		
Chemical Nar	ne	CAS #	%	EINECS

Section 3 Composition / inf	ormation on ingredients			
Chemical Name	CAS #	%	EINECS	
Isopropyl alcohol Water Phenolphthalein	67-63-0 7732-18-5 77-09-8	70% 29% 1%	200-661-7 231-791-2 201-004-7	
Section 4 First aid measure	S			

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL. IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

## Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

# Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m <sup>3</sup>	TWA: 400 ppm / STEL: 500 ppm	

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 0							
Section 9	Physical and chemical pro	perties					
Odor: Aromatic o Odor threshold: pH: Data not avai Melting / Freezing p Boiling point: App	Data not available.	Flammability ( Explosion limit Vapor pressur Vapor density Relative density	tte (Butyl acetate = 1): solid/gas): Data not av ts: Lower / Upper: 2% e (mm Hg): 33 mm @2 (Air = 1): 2.1 [Pure IPA (Specific gravity): 0.8* c Complete in water.	ailable. 5 / 12% [Pure IPA] :0°C [Pure IPA]	Auto-ignitio Decompos Viscosity: Molecular	n temperature: 39	re
Section 10	Stability and reactivity				1		
Chemical stabilit	-		ous polymerization: W				
	oid: Excessive temperatures, heat			0			
·	terials: Strong oxidizing materials,		iums, metals, nitroform,	oleum, chlorinated	compounds o	an react vigorous	sly with this alcohol.
Hazardous deco	mposition products: Oxides of ca	rbon.					
Section 11	Toxicological information						
Skin corrosion/in Serious eye dam Respiratory or si Germ cell mutag Carcinogenity: 1 NTP: Reasonably IARC classified: C OSHA: No compo CA Prop 65: A W Reproductive to: STOT-single exp STOT-repeated e Aspiration hazar Potential health		e irritant. le gen. [Phenolphth numans. [Pheno s greater than o you to Phenolp	ialein] iphthalein] r equal to 0.1% is identif hthalein, which is known	ied as a carcinoger to the State of Cal	fornia to caus	se cancer.	
and irritation of th Ingestion: Aspiral develop if this occ Skin: Prolonged of Eyes: Contact ca Signs and sympt	tion of high vapor concentrations m e throat. Continued inhalation may tion hazard. Liquid can directly ente	résult in uncons er the lungs (asp tion and drying, welling, and/or b nealth effects ab	ciousness and death. irated) when swallowed cracking and defatting c lurred vision. ove.	or vomited. Seriou	s lung damag	e and possible fa	
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

# SAFETY DATA SHEET

by Aldon Corporation

Page E1 of E2

Section 1

Identification

# **INNOVATING SCIENCE®**

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 "Cutting edge science for the classroom'

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product

POTASSIUM HYDROXIDE, 0.1 MOLAR (0.1 NORMAL) SOLUTION

### Synonyms Potassium Hydroxide, Water Solution

# Section 2 Hazards identification Signal word: WARNING Precautionary statement: Pictograms: GHS07 P264: Wash hands thoroughly after handling. Target organs: None known. GHS Classification: Acute toxicity (Category 5) Skin irritation (Category 2) Eye irritation (Category 2A) GHS Label information: Hazard statement: H303: May be harmful if swallowed.

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P312: Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse.

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Potassium hydroxide		7732-18-5 1310-58-3	99.43% 0.57%	231-791-2 215-181-3	
Section 4	First aid measures				

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances

Section 8	Exposure controls / personal protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	Potassium hydroxide	STEL: C 2mg/m <sup>3</sup>	None established	STEL: C 2mg/m <sup>3</sup>	

Engineering controls: Facilities storing or utilizing this material should be equipped with an evewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical and chemical pro	operties	
Appearance: Clear, colorless liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~100°C (212°F) (water) Flash point: Data not available.	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available. Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Wolecular formula: Mixture Molecular weight: Mixture
Section 10 Stability and reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Acids, aluminum, halogens, nitro compounds, organic materials, acid chlorides, acid anydrides, magnesium, copper, tin and zinc.

Hazardous decomposition products: Hydrogen gas in contact with metals.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 365 mg/kg (IUCLID dataset) [Potassium hydroxide] Skin corrosion/irritation: Skin-rabbit - Corrosive Serious eye damage/irritation: Eyes-rabbit - Corrosive Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful by inhalation. Ingestion: Harmful by ingestion. Skin: Contact with skin causes burns. Eyes: Contact causes damage. Signs and symptoms of exposure: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting Additional information: RTECS #: TT2100000 [Potassium hydroxide] Section 12 **Ecological information** Toxicity to fish: Gambus affinis (fish, fresh water), LC50 = 85 mg/l/24 hours [Potassium hydroxide] Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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Persistence and degradability: No data available	Bioaccumulative potential: No data available
Mobility in soil: No data available	PBT and vPvB assessment: No data available

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Section 13 **Disposal considerations** 

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

applicable

#### Section 14 Transport information

UN/NA number: Not applicable	Shipping name: Not Regulated
Hazard class: Not applicable	Packing group: Not applicable
Exceptions: Not applicable	2020 ERG Guide # Not applicable

Reportable Quantity: No

Marine pollutant: No

### Section 15 **Regulatory information**

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium hydroxide	Listed	Listed	D002, D003	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook Form 06/2015