Printing date 06/17/2024

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Reviewed on 06/17/2024

1 Identification	
· Product identifier	
• Trade name: <u>Kovac's Aldehyde</u> <u>Reagent For Indole</u>	
• Article number: 4940	
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Aqua Solutions, Inc.</li> <li>6913 Highway 225 DEER PARK, TX 77536 USA</li> <li>800-256-2586</li> </ul>	AQUA SOLUTIONS
<ul> <li>Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org</li> <li>Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666</li> </ul>	
2 Hazard(s) identification · Classification of the substance or mixture GHS02 Flame	
Flammable Liquids 3	H226 Flammable liquid and vapor.
GHS08 Health hazard	
Specific Target Organ Toxicity - Repeated Exposure 2	2 H373 May cause damage to organs through prolonged or repeated exposure.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
GHS07	
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
• Label elements • GHS label elements The product is classified and lab	peled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Store of contents/container in accordance with local/regional/national/international regulations. <b>Classification system:</b> <b>NFPA ratings (scale 0 - 4)</b> <b>Health = 3</b> Fire = 3 Reactivity = 0 <b>HMIS-ratings (scale 0 - 4)</b> <b>HEALTH</b> 2 <b>Health = *3</b> Fire = 3 Fire =		
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- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

CAS: 71-41-0	Amyl alcohol	64.421%
CAS: 7647-01-0	Hydrochloric Acid	30.308%
CAS: 100-10-7	4-(Dimethylamino) Benzaldehyde, 98%	5.271%

### 4 First-aid measures

### · Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- $\cdot$  Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

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		<b>Reagent For Indole</b>

8			
		(Contd. of page 3)	
• Environmental p	precautions: Do not allow to enter sewers/ surface or ground water.		
· Methods and ma	terial for containment and cleaning up:		
Absorb with liqu	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
Use neutralizing	agent.		
Dispose contami	nated material as waste according to section 13.		
Ensure adequate	Ensure adequate ventilation.		
· Reference to oth	er sections		
See Section 7 for	information on safe handling.		
See Section 8 for	See Section 8 for information on personal protection equipment.		
See Section 13 for disposal information.			
· Protective Action	ı Criteria for Chemicals		
· PAC-1:			
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm	
CAS: 100-10-7	4-(Dimethylamino) Benzaldehyde, 98%	$8.2 mg/m^3$	
· PAC-2:			
CAS: 7647-01-0	Hydrochloric Acid	22 ppm	
CAS: 100-10-7	4-(Dimethylamino) Benzaldehyde, 98%	90 mg/m <sup>3</sup>	
· PAC-3:			
CAS: 7647-01-0	Hydrochloric Acid	100 ppm	
CAS: 100-10-7	4-(Dimethylamino) Benzaldehyde, 98%	250 mg/m <sup>3</sup>	

## 7 Handling and storage

#### · Handling:

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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#### Trade name: Kovac's Aldehyde Reagent For Indole

	(Contd. of page 4)
CAS: 71-41-0 Amyl alcohol	
WEEL	Long-term value: 100 ppm
CAS: 7647-01-0 Hydrochloric Acid	
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m <sup>3</sup>
PEL	Ceiling limit value: 7 mg/m³, 5 ppm
REL	Ceiling limit value: 7 mg/m³, 5 ppm
TLV	Ceiling limit value: 2 ppm
	A4

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

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· Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Yellow	
• Odor: • Odor threshold:	Distinct Not determined.	
• <i>pH-value at 20 °C (68 °F):</i>	<2	
· Change in condition	The distance in a d	
Melting point/Melting range: Boiling point/Boiling range:	<i>Undetermined.</i> 137 °C (278.6 °F)	
01 0 0		
· Flash point:	30 °C (86 °F)	
· Flammability (solid, gaseous):	Flammable.	
· Auto igniting:	310 °C (590 °F)	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.	
· Explosion limits:		
Lower:	1.2 Vol %	
Upper:	10.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	1.3 hPa (1 mm Hg)	
• Density at 20 °C (68 °F):	0.9486 g/cm <sup>3</sup> (7.91607 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	64.4 %	
VOC content:	64.42 % 611.1 g/l / 5.10 lb/gal	
Solids content:	5.3 %	
• Other information	No further relevant information available.	

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## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 15,178 mg/kg (mouse)* 

- Inhalative LC50/4h 17.1 mg/l
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- $\cdot$  on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12** Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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• 2	Additional	ecological	information:	
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## · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

# **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN2924
· UN proper shipping name · DOT	Flammable liquids, corrosive, n.o.s. (Amyl alcohol, Hydrochlor Acid)
· IMDG, IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Amyl alcoho Hydrochloric Acid)
· Transport hazard class(es)	
·DOT	
TRUMARE LOUD	
· Class · Label	3 Flammable liquids 3, 8
·IMDG	5, 0

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	(Contd. of page
Label	3/8
IATA	
3	
Class	3 Flammable liquids
Label	3 (8)
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler co	
EMS Number:	F- $E$ , $S$ - $C$
Segregation groups	(SGG1) Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	0
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN ''Model Regulation'':	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (AMY
	ALCOHOL, HYDROCHLORIC ACID), 3 (8), II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

 Section 355 (extremely hazardous substances):
 None of the ingredients is listed.

 Section 313 (Specific toxic chemical listings):
 None of the ingredients is listed.

 None of the ingredients is listed.
 Image: Control Act):

 Amyl alcohol
 ACTIVE

 Hydrochloric Acid
 ACTIVE

 4-(Dimethylamino) Benzaldehyde, 98%
 ACTIVE

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· Hazardous Air Pollutants

CAS: 7647-01-0 Hydrochloric Acid

## · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard-determining components of labeling: Amyl alcohol Hydrochloric Acid · Hazard statements Flammable liquid and vapor. Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department. · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 0.1, 06/17/2024: Reviewed SDS for accuracy. MH/STN 06/17/2024 / 1.0 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 • \* Data compared to the previous version altered.