Printing date 01/23/2024

Reviewed on 01/23/2024

1 Identification		
· Product identifier		
• Trade name: <u>DCP Inter</u> (0.2 uM Fi		
• Article number: DOW74	9	
 Details of the supplier of Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 	f the safety data sheet	AQUA SOLUTIONS
 Information department Technical Coordinator Sherman Nelson sherman Emergency telephone no 	nn@aquasolutions.org	
<i>Chemtrec: 800-424-9300</i> <i>Canutec: 613-996-6666</i>		
2 Hazard(s) identifica	tion	
· Classification of the sub		
GHS02 Flame		
	H225 Highly flammable liquid an	d vapor.
Flammable Liquids 2	H225 Highly flammable liquid an	d vapor.
Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4	H225 Highly flammable liquid an H302 Harmful if swallowed.	
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal	H225 Highly flammable liquid an H302 Harmful if swallowed.	
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal	H225 Highly flammable liquid an H302 Harmful if swallowed. 4 H312 Harmful in contact with ski	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalation Eye Irritation 2A • Label elements	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalation Eye Irritation 2A • Label elements • GHS label elements The	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalation Eye Irritation 2A • Label elements • GHS label elements The	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalation Eye Irritation 2A • Label elements • GHS label elements The • Hazard pictograms	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalation Eye Irritation 2A Label elements GHS label elements The Hazard pictograms GHS02 GHS07 Signal word Danger Hazard-determining con Acetonitrile, Reagent AC	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritation product is classified and labeled accom	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalatio Eye Irritation 2A Label elements GHS label elements The Hazard pictograms GHS02 GHS07 Signal word Danger Hazard-determining con	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio product is classified and labeled accom product is classified and labeled accom	n.
Flammable Liquids 2 Flammable Liquids 2 GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal Acute Toxicity - Inhalatio Eye Irritation 2A Label elements GHS label elements The Hazard pictograms GHS02 GHS07 Signal word Danger Hazard-determining con Acetonitrile, Reagent AC Hazard statements Highly flammable liquid	H225 Highly flammable liquid an H302 Harmful if swallowed. H312 Harmful in contact with skin on 4 H332 Harmful if inhaled. H319 Causes serious eye irritatio product is classified and labeled accon product is classified and labeled accon S Grade and vapor. contact with skin or if inhaled.	n.

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	(Contd. of page
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	the water /ale even
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi	tin water/snower.
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	if manager that and a same to d
If in eyes: Rinse cautiously with water for several minutes. Remove contact le	enses, ij preseni ana easy io a
Continue rinsing.	
Specific treatment (see on this label). Rinse mouth.	
Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/interna	tional regulations
Classification system:	nonai regulations.
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 4	
2 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{2} Health = 2$	
FIRE 4 $Fire = 4$	
REACTIVITY \bigcirc <i>Reactivity</i> = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
Chemical characterization: Mixtures	
Description: Mixture of the substances listed below with nonhazardous additions.	
Dangerous components:	

· Dangerous components:	
CAS: 75-05-8 Acetonitrile, Reagent ACS Grade	99.617%
· Table of Nonhazardous Ingredients	
CAS: 108-93-0 Cyclohexanol	0.384%

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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 rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal prece	utions, protective equipment and emergency procedures	
Wear protectiv	e equipment. Keep unprotected persons away.	
• Environmenta		
Dilute with ple	nty of water.	
	o enter sewers/ surface or ground water.	
	naterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
-	ninated material as waste according to section 13.	
Ensure adequa		
• Reference to o		
	or information on safe handling.	
	or information on personal protection equipment.	
	for disposal information.	
· Protective Acti	on Criteria for Chemicals	
· PAC-1:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	13 ppm
CAS: 108-93-0	Cyclohexanol	150 ppm
· PAC-2:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	50 ppm
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CAS: 108-93-0 Cyclohexanol	(Contd. of page 3) 580 ppm
· PAC-3:	
CAS: 75-05-8 Acetonitrile, Reagent ACS Grade	150 ppm
CAS: 108-93-0 Cyclohexanol	3,500 ppm

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.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- *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:

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

- PEL Long-term value: 70 mg/m³, 40 ppm
- REL Long-term value: 34 mg/m³, 20 ppm
- TLV Long-term value: 20 ppm Skin. 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. 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.

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· 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

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Aromatic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 36 °C (96.8 °F)
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	525 °C (977 °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:	4.4 Vol %

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		(Contd. of page
Upper:	16 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Vapor pressure at 50 •C (122 •F):	330 hPa (247.5 mm Hg)	
• Density at 20 •C (68 •F):	0.78281 g/cm ³ (6.53255 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
<i>Dynamic at 20 •C (68 •F):</i>	0.39 mPas	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.4 %	
• Other information	No further relevant information available.	

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	502 mg/kg
Dermal	LD50	1,104 mg/kg
Inhalative	LC50/4h	11 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

 \cdot Additional toxicological information:

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

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Irritant

· 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.
- · Additional ecological information:

· General notes:

- Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN1648	
· UN proper shipping name		
· DOT	Acetonitrile solution	
· IMDG, IATA	ACETONITRILE solution	

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· Transport hazard class(es)	
·DOT	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code)	
· EMS Number:	F-E,S-D
· Stowage Category · Stowage Code	B SW2 Clear of living quarters.
	Sw2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
	Noi upplicable.
• Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	
\cdot Excepted quantities (EQ)	Code: E2 Maximum not quantity nor inner packaging, 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1648 ACETONITRILE SOLUTION, 3, 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.

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All ingredients are listed.	
TSCA (Toxic Substances Control Act):	
Acetonitrile, Reagent ACS Grade	ACTIVI
Cyclohexanol	ACTIVI
Hazardous Air Pollutants	
CAS: 75-05-8 Acetonitrile, Reagent ACS Grade	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males:	
Chemicals known to cause reproductive toxicity for males:	

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

CBD, D

A4

• TLV (Threshold Limit Value)

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

· 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:
- Acetonitrile, Reagent ACS Grade
- · Hazard statements
- Highly flammable liquid and vapor.
- Harmful if swallowed, in contact with skin or if inhaled.
- Causes serious eye irritation.

Precautionary statements
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapors/spray

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Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Specific treatment (see on this label). Rinse mouth. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. 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 0.0: 01-23-2024 : creation date for SDS STN/CMC 01/23/2024 · 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 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A • * Data compared to the previous version altered.