

Aquanol® 300**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: Aquanol® 300
SDS Number: J5130
Revision Date: 8/19/2021
Version: 2108
Internal ID: J5130
Product Use: High Performance Alcohol Replacer for Industrial Use Only
Instructions: Mix 1 to 4 ounces per gallon of Aquanol 300 into the press ready mix. Normal starting dosage is 2 ounces per gallon. To decrease water setting or reduce lead edge toning, increase dosage by 1 ounce per gallon. If ink emulsification or roller stripping occurs decrease dosage by 1 ounce per gallon.

Vendor Details: RBP Chemical Technology, Inc.
150 S 118th Street
Milwaukee, WI 53214

Phone: 414-258-0911
Fax: 414-258-7908
Web: www.rbpchemical.com
Emergency: INFOTRAC 1-800-535-5053 or +1-352-323-3500 (outside USA)

2 HAZARDS IDENTIFICATION**Classification of the Substance or Mixture****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Oral
Health, Aspiration hazard, 1
Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3

GHS Label Elements, Including Precautionary Statements**GHS Signal Word:** **DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

GHS Precautionary Statements:

P261 - Avoid breathing fume, gas, mist, vapors, or spray.
P264 - Wash skin 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.
P280 - Wear protective gloves, eye and face protection, and protective clothing.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P337+313 - If eye irritation persists: Get medical advice/attention.

P403+233 - Store in a well ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with local, national, and international regulations

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

No additional information identified.

Percentage of components with Unknown Acute Toxicity:

Oral: 15%

Dermal: 17%

Inhalation: 23%

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
111-76-2	60-90%	2-Butoxyethanol
94-96-2	1-5%	1,3-Hexanediol, 2-ethyl-
102-60-3	1-5%	2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrilo)tetrakis-
64-19-7	1-5%	Acetic acid

*Components not listed are either non-hazardous or are below reportable limits. *A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality, or is due to batch variation.

4 FIRST AID MEASURES

Inhalation: IF INHALED: Move to fresh air. Get medical attention if symptoms develop or persist.

Skin Contact: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

Eye Contact: IF IN EYES: Rinse immediately with water for several minutes. Remove contact lenses and continue rinsing.

Ingestion: IF SWALLOWED: Rinse mouth. Do not induce vomiting. Drink large quantities of water. Keep head below hips to prevent aspiration.

Most important symptoms/effects, acute and delayed: Signs and symptoms can include nausea, vomiting, abdominal cramps, and diarrhea shortly after ingestion. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. See Section 11 - Toxicological information.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

General information: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. For personal protection, see Section 8 of the SDS. Wash contaminated clothing before reuse.

5 FIRE FIGHTING MEASURES

Personal Protective Equipment For Fire Fighters: Wear self-contained breathing apparatus and protective clothing.

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, or alcohol-resistant foam

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Substance or Mixture Hazards during fire-fighting: Do not allow run-off from fire fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Use Personal Protective Equipment to clean up spills. Do not touch or walk through spilled materials. As an immediate precautionary measure, isolate spill or leak area. This product may contain components that are hazardous to aquatic life. Keep out of drains, sewers, ditches, and waterways.

Methods for Containment and Clean-Up

Small Spill: Absorb spill with vermiculite or other inert material (such as sand or other non-combustible material) and transfer to containers for later disposal.

Large Spill: Dike far ahead of liquid for later disposal. Use absorbent pads to contain. Collect up and place in a chemical waste container for disposal. Clean surface thoroughly to remove residual contamination.

Other Information: See Section 13 for waste disposal. US Regulations may require reporting spills of hazardous materials. See Section 15: Regulatory Information for details on reportable quantities, if any.

7	HANDLING AND STORAGE
----------	-----------------------------

Handling Precautions: Avoid breathing fumes, gas, mist, vapors, and/or spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye and face protection, and protective clothing. Wash skin thoroughly after handling.

Storage Requirements: Keep container tightly closed in a cool, dry, and well-ventilated place. Store locked up. Store away from incompatibles (See Section 10).

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
----------	--

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mist below their respective threshold limit value.

Personal Protective Equipment: The following are recommendations for Personal Protective Equipment (PPE). The employer/ user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Avoid skin contact with this product.

Eye/Face protection: Tightly fitting safety goggles or safety glasses with side shields.

Skin and body protection: Wear appropriate chemical-resistant clothing.

Exposure Guidelines for Components:**2-Butoxyethanol (111-76-2)**

ACGIH TLV: 20 ppm TWA
 ACGIH TLV: STEL No data available
 OSHA PEL: 50 ppm (240 mg/m³) TWA
 OSHA PEL: 25 ppm (120 mg/m³) TWA
 NIOSH: 5 ppm (24 mg/m³) TWA
 NIOSH: STEL No data available
 Other: Not applicable

1,3-Hexanediol, 2-ethyl-1, (94-96-2)

ACGIH TLV: TWA no data available
 ACGIH TLV: STEL no data available
 OSHA PEL: TWA no data available
 NIOSH: TWA no data available
 NIOSH: STEL no data available
 Other: not applicable

2-Propanol, 1,1',1",1"'-(1,2-ethanediyldinitrilo)tetrakis- (102-60-3)

ACGIH TLV: TWA no data available
 ACGIH TLV: STEL no data available
 OSHA PEL: TWA no data available
 NIOSH: TWA no data available
 NIOSH: STEL no data available
 Other: not applicable

Acetic acid, glacial (64-19-7)

ACGIH TLV: 10 ppm TWA
 ACGIH TLV: 15 ppm STEL
 OSHA PEL: 10 ppm (approx. 25 mg/m³) TWA
 OSHA PEL: STEL no data available
 NIOSH: 10 ppm (approx. 25 mg/m³) TWA
 NIOSH: 15 ppm (approx. 37 mg/m³) STEL

9	PHYSICAL AND CHEMICAL PROPERTIES
----------	---

Appearance:	Clear pale yellow	Odor:	Mild Solvent
Physical State:	Liquid	Solubility:	Complete
Odor Threshold:	No data available.	Freezing/Melting Pt.:	No data available.
Spec Grav./Density:	0.94	Flash Point:	>210 F (SCC)
Viscosity:	11.06 cps (kinematic)	Octanol:	No data available.
Boiling Point:	No data available.	Vapor Density:	No data available.
Flammability:	Non-flammable	VOC:	5.8 lbs/gal, 700 g/l, 74%
Vapor Pressure:	3.7 mm Hg @ 68 F	Bulk Density:	7.82 lbs/gal
pH:	6	Auto-Ignition Temp:	No data available.
Evap. Rate:	No data available.	UFL/LFL:	No data available.
Decomp Temp:	No data available.		

10	STABILITY AND REACTIVITY
-----------	---------------------------------

Reactivity:	Material does not pose a significant reactivity hazard.
Chemical Stability:	Product is stable under normal temperature and pressure (25C; 1 atm).
Conditions to Avoid:	Incompatible Materials.
Materials to Avoid:	(Incompatible Materials): Strong Oxidizing Agents.
Hazardous Decomposition:	Carbon Monoxide/Dioxide.
Hazardous Polymerization:	(Hazardous Reactions): Will not occur.

11	TOXICOLOGICAL INFORMATION
-----------	----------------------------------

Likely Routes of Exposure:

Ingestion, Inhalation, Eye Contact, Skin Contact.

Symptoms:

Inhalation: Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression).

Eye Contact: May cause severe irritation to eyes. May cause tearing, redness and discomfort.

Skin Contact: May cause allergic skin reaction. Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash).

Ingestion: Ingestion may cause gastrointestinal tract irritation. Overexposure may cause nausea, diarrhea, and/or vomiting. Harmful if swallowed and enters airways.

Acute Toxicity:

Oral: 2-Butoxyethanol (111-76-2): LD50 - rat - 470 mg/kg
 1,3-Hexanediol, 2-ethyl- (94-96-2): LD50 - rat - 1,400 mg/kg
 2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis- (102-60-3): LD50 no data available
 Acetic acid (64-19-7): LD50 Oral - rat - 3,310 mg/kg

Dermal: 2-Butoxyethanol (111-76-2): LD50 - rabbit - 220 mg/kg
 1,3-Hexanediol, 2-ethyl- (94-96-2): LD50 - rabbit - 2,000 mg/kg
 2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis- (102-60-3): LD50 no data available
 Acetic acid (64-19-7): LD50 Dermal - rabbit - 1,112 mg/kg

Inhalation: 2-Butoxyethanol (111-76-2): LC50 - rat - 4 h - 450 ppm
 1,3-Hexanediol, 2-ethyl- (94-96-2): LC50 no data available
 2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis- (102-60-3): LC50 no data available
 Acetic acid (64-19-7): LC50 Inhalation - rat - 4 h - 11.4 mg/l

Skin Corrosion: Skin irritant

Serious Eye Damage/ Eye Irritation: Eye Irritant

Sensitization: One or more components of this product causes skin sensitization by skin contact.

Germ Cell Mutagenicity: no data available

Carcinogenicity: IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, or

OSHA.

Reproductive/ Developmental Toxicity: no data available

Specific Target Organ Toxicity:

Single Exposure: May cause drowsiness or dizziness.

Repeated Exposure: no data available

Aspiration Hazard: May be harmful if swallowed and enters airways.

12 ECOLOGICAL INFORMATION

Component data:

2-Butoxyethanol (111-76-2)

Toxicity:

fish LC50 - other fish - 220 mg/l - 96 h.

daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h.

Ratio BOD/ThBOD 88 %

1,3-Hexanediol, 2-ethyl- (94-96-2)

Toxicity:

fish LC50 - Ictalurus punctatus - 624 mg/l - 96 h.

2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrilo)tetrakis- (102-60-3)

Toxicity: no data available

Acetic acid (64-19-7) [1-5%]

Toxicity:

fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l -:96 h (OECD Test Guideline 203)

daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - > 300.82 mg/l - 48 h.

Persistence and degradability: Biodegradability aerobic - Exposure time 30 d Result: 99 % - Readily biodegradable. Remarks: Expected to be biodegradable

Biochemical Oxygen 880 mg/g Demand (BOD)

Product Data:

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: Additional ecological no data available information

13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14 TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight.

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[60-90%] 2-Butoxyethanol (111-76-2) HAP, MASS, OSHAWAC, PA, TSCA, TSCAACTV, TXAIR

[1-5%] 1,3-Hexanediol, 2-ethyl- (94-96-2) TSCA, TSCAACTV, TXAIR

[1-5%] 2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrilo)tetrakis- (102-60-3) TSCA, TSCAACTV

[1-5%] RQ(5000LBS), Acetic acid (64-19-7) CERCLA, CSWHS, HAP, MASS, OSHAWAC, PA, TSCA, TSCAACTV, TXAIR



WARNING

This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

CERCLA = Superfund clean up substance

CSWS = Clean Water Act Hazardous substances
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
OSHA = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
TSCACTV = TSCA Active Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

16

OTHER INFORMATION

This document was composed and approved by qualified RBP Chemical Technology Inc. personnel. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Individuals should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in terms of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

Version: 06

Supersedes: 03/17/2020

Revision Date: 8/19/2021