Printing date 11/16/2017

Reviewed on 11/16/2017

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- · Product identifier
- Trade name: <u>Sec-Butyl Alcohol 0.05% w/w</u> in Dichloromethane
- Article number: EXX172
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

- Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Carc. 1B	H350	May cause cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H302 H	Harmful if swallowed.
Skin Irrit. 2 H315 C	Causes skin irritation.
Eye Irrit. 2A H319 C	Causes serious eye irritation.
STOT SE 3 H335-H336 M	May cause respiratory irritation. May cause drowsiness or dizziness.

· Label elements

• *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: Dichloromethane (Methylene Chloride)
Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

(Contd. on page 2)

US

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	Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	REACTIVITY \Box Reactivity = 0	
assessment	Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.		
assessment	PBT: Not applicable. vPvB: Not applicable.		
	vPvB: Not applicable.		
	Composition/information on ingredients	vPvB: Not applicable.	
	Composition/information on ingredients	Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
n: Mixtures		Description: Mixture of the substances listed below with nonhazardous additions.	

· Dangerous components:

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

(Contd. on page 3) US

99.95%

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Trade name: Sec-Butyl Alcohol 0.05% w/w in Dichloromethane

(Contd. of page 2)

0.05%

· Table of Nonhazardous Ingredients

CAS: 78-92-2 sec-Butyl Alcohol 99%

4 First-aid measures

· Description of first aid measures

- · General information:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: 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. 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.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- *Ensure adequate ventilation. Reference to other sections*
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:	
CAS: 75-09-2 Dichloromethane (Methylene Chloride)	200 ppm
CAS: 78-92-2 sec-Butyl Alcohol 99%	150 ppm
· PAC-2:	
CAS: 75-09-2 Dichloromethane (Methylene Chloride)	560 ppm
CAS: 78-92-2 sec-Butyl Alcohol 99%	220 ppm
	(Contd. on page 4)

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Sec-Butyl Alcohol 0.05% w/w in Dichloromethane

· PAC-3:

· FAC-5?		
CAS: 75-09-2 D	vichloromethane (Methylene Chloride)	6,900 ppm
CAS: 78-92-2 se	ec-Butyl Alcohol 99%	10000** ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · 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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- CAS: 75-09-2 Dichloromethane (Methylene Chloride)
- PEL Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
- REL See Pocket Guide App. A
- TLV Long-term value: 174 mg/m³, 50 ppm BEI

· Ingredients with biological limit values:

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

- BEI 0.3 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Dichloromethane (semi-quantitative)
- 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 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:	Recognizable	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	605 °C (1,121 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	13 Vol %	
Upper:	22 Vol %	

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· Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)	
Density at 20 °C (68 °F):	1.32974 g/cm ³ (11.09668 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water at 20 °C (68 °F):	20 g/l	
· Partition coefficient (n-octanol/wate	e r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	0.05 %	
	0.7 g/l / 0.01 lb/gl	
Solids content:	0.0 %	
• 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	1,601 mg/kg (rat)
Dermal	LD50	>2,001 mg/kg (rat)
CAS: 75-09-2 Dichloromethane (Methylene Chloride)		
Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	52,000 mg/l (rat)
Irritation of skin	Skin Corrosion/Irritation	(rabbit) (Draize)
Irritation of eyes	Eye damage/eye irritation	(rabbit)
· Primary irritant effect:		

• on the skin: Irritant to skin and mucous membranes.

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Trade name: Sec-Butyl Alcohol 0.05% w/w in Dichloromethane

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R

- 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

Irritant

· Carcinogenic categories

 \cdot IARC (International Agency for Research on Cancer)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

· NTP (National Toxicology Program)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · Mobility in soil No further relevant information available.
- \cdot 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
- *Results of PB1 and VPVB a* • *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, ADN, IMDG, IATA	Not regulated	
· UN proper shipping name		
· DOT, ADN, IMDG, IATA	Not regulated	

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		(Contd. of page 7)
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	Not regulated	
· Packing group · DOT, IMDG, IATA	Not regulated	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.	
· UN "Model Regulation":	Not regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
All ingredients are listed.
· TSCA (Toxic Substances Control Act):
Dichloromethane (Methylene Chloride)
sec-Butyl Alcohol 99%
· Proposition 65
· Chemicals known to cause cancer:
CAS: 75-09-2 Dichloromethane (Methylene Chloride)
· 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)
CAS: 75-09-2 Dichloromethane (Methylene Chloride)
· TLV (Threshold Limit Value established by ACGIH)
CAS: 75-09-2 Dichloromethane (Methylene Chloride) A.

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

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 9)

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H	(Contd. of page
Hazard pictograms	
GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling:	
Dichloromethane (Methylene Chloride) Hazard statements	
Harmful if swallowed.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause cancer.	
May cause respiratory irritation. May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe 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.	
If on skin: Wash with plenty of water.	
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
If in eyes: Rinse cautiously with water for several minutes. Remove contact let	nses, if present and easy to d
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
Specific treatment (see on this label).	
Rinse mouth.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international/	ional regulations.
National regulations:	-
Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group III (dangerous).	
Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous carcinogenic materials	s contained in this preparatio
Exceptions can be made by the authorities in certain cases.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried of	out.

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(Other information
	This information is based on our present knowledge. However, this shall not constitute a guarantee for a precific product features and shall not establish a legally valid contractual relationship.
l	Department issuing SDS: Environment protection department.
(Contact:
1	Date of preparation / last revision
	11-16-2017: review SDS for accuracy. STN
	Creation date for SDS 02-20-2014. STN
_	1/16/2017 / -
A	Abbreviations and acronyms:
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
	Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods
	DOT: US Department of Transportation
	ATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	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)
	AS: Chemical Abstracts Service (alvision of the American Chemical Society) IFPA: National Fire Protection Association (USA)
	IMIS: Hazardous Materials Identification System (USA)
	OC: Volatile Organic Compounds (USA, EU)
	C50: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	PvB: very Persistent and very Bioaccumulative
	VIOSH: National Institute for Occupational Safety
	DSHA: Occupational Safety & Health
	LV: Threshold Limit Value
ŀ	PEL: Permissible Exposure Limit
	REL: Recommended Exposure Limit
	3EI: Biological Exposure Limit
	Acute Tox. 4: Acute toxicity – Category 4
	kin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
	Carc. 1B: Carcinogenicity – Category 1B
	TOT SE 3: Specific target organ toxicity (single exposure) – Category 3
S	TOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2