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1 Identification

- · Product identifier
- · Product Name: <u>Alcohols Mix</u>
- · Part Name: 8015B-A
- · Application of the substance / the mixture Certified Reference Material
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Spex CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA 732-549-7144
- USMet-CRMSales@antylia.com
- · Information department: product safety department · Emergency telephone number:
- Emergency Phone Number (24 hours)
- CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture



Carcinogenicity 1A H350 May cause cancer.

- · 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:
- ethanol
- · Hazard statements H350 May cause cancer.
- · Precautionary statements
- P201
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P202
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



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

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Dangerous components:	
64-17-5 ethanol	0.2%
67-56-1 methanol	0.2%
107-18-6 allyl alcohol	0.2%
· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	98.2%
67-63-0 isopropyl alcohol	0.2%
71-23-8 propan-1-ol	0.2%
71-36-3 butan-1-ol	0.2%
75-65-0 2-methylpropan-2-ol	0.2%
78-83-1 2-methylpropan-1-ol	0.2%
107-21-1 ethanediol	0.2%

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · 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:
- Dilute with plenty of water.
- 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:		
64-17-5	ethanol	1,800 ppm
67-56-1	methanol	530 ppm
		400 ppm
71-23-8	propan-1-ol	250 ppm
		60 ppm
		150 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
107-18-6	allyl alcohol	0.09 ppm
107-21-1	ethanediol	30 ppm
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· PAC-2:		
64-17-5	ethanol	3300* ppm
67-56-1	methanol	2,100 ppm
67-63-0	isopropyl alcohol	2000* ppm
71-23-8	propan-1-ol	670 ppm
71-36-3	butan-1-ol	800 ppm
75-65-0	2-methylpropan-2-ol	1,300 ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
107-18-6	allyl alcohol	1.7 ppm
107-21-1	ethanediol	150 ppm
· PAC-3:		L.
64-17-5	ethanol	15000* ppm
67-56-1	methanol	7200* ppm
67-63-0	isopropyl alcohol	12000** ppm
71-23-8	propan-1-ol	4000* ppm
71-36-3	butan-1-ol	8000** ppm
75-65-0	2-methylpropan-2-ol	8000* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
107-18-6	allyl alcohol	13 ppm
107-21-1	ethanediol	900 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires: 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 item 7.

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
64-1	7-5 ethanol
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm A3
67-5	6-1 methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
107-	18-6 allyl alcohol
PEL	Long-term value: 5 mg/m ³ , 2 ppm Skin
REL	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm Skin
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	Long-term value: 0.5 ppm
	Skin, A4
·Ingr	edients with biological limit values:
67-5	6-1 methanol
BEI	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)
. 1 11	itional information. The lists that were valid during the creation were used as basis

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

- · Exposure controls
- · Personal protective equipment:
- \cdot General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

· Respiratory protection:

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:



9 Physical and chemical properties

· Information on basic physical and o	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odour Threshold:	Not applicable.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F)	0.99702 g/cm ³ (8.32013 lbs/gal)

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· Relative density	Not applicable.	
· Vapor density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol	//water): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	1.4 %	
Water:	98.2 %	
VOC content:	1.40 %	
Solids content:	0.2 %	
• 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:

107-18-6 allyl alcohol

Oral LD50 64 mg/kg (rat)

Dermal LD50 45 mg/kg (rabbit)

- · Primary irritant effect:
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
64-17-5 ethanol	1	
67-63-0 isopropyl alcohol	3	
· 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 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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 $\cdot \textit{Other adverse effects} \textit{ No further relevant information available}.$

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.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated	
· Packing group · DOT, ADR, IMDG, IATA	Not Regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 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 313 (Specific toxic chemical listings):	
67-56-1 methanol	
67-63-0 isopropyl alcohol	
71-36-3 butan-1-ol	
75-65-0 2-methylpropan-2-ol	
107-18-6 allyl alcohol	
107-21-1 ethanediol	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
67-56-1 methanol	
107-21-1 ethanediol	
· 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.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
64-17-5 ethanol	
67-56-1 methanol	
107-21-1 ethanediol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
71-36-3 butan-1-ol	D

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· EPA (Environmental Protection Agency)	
71-36-3 butan-1-ol	D
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· TLV (Thr	· TLV (Threshold Limit Value)			
64-17-5	ethanol	A3		
67-63-0	isopropyl alcohol	A4		
	propan-1-ol	A4		
75-65-0	2-methylpropan-2-ol	A4		
107-18-6	allyl alcohol	A4		
107-21-1	ethanediol	A4		
· NIOSH-Ca (National Institute for Occupational Safety and Health)				
None of the ingradients is listed				

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:

ethanol

· Hazard statements

H350 May cause cancer.

· Precautionary statements

Obtain special instructions before use. P201

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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: product safety department

Spex CertiPrep, LLC. 1-732-549-7144

Date of preparation / last revision 11/21/2022

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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

BEI: Biological Exposure Limit Carcinogenicity IA: Carcinogenicity – Category IA

[·] Contact: