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Safety Data Sheet acc. to OSHA HCS

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1 Identification

- · Product identifier
- · Product Name: 2-Propanol
- Part Name: S-3165
- · 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



Flammable Liquids 2

H225 Highly flammable liquid and vapor.

GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

H331 Toxic if inhaled.

· 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:
- methanol
- · Hazard statements
- H225 Highly flammable liquid and vapor.
- H331 Toxic if inhaled.

H370 Causes damage to the central nervous system and the visual organs.

· Precautionary statements

P210	<i>Ceep away from heat/sparks/open flames/hot surfaces No smoking.</i>
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P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
- P321 Specific treatment (see on this label).
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.

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 P405
 Store locked up.

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

- *P501 Dispose of contents/container in accordance with local/regional/nation classification system:*
- · NFPA ratings (scale 0 4)



Health = 1Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- 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:	
67-56-1 methanol	99.9%
· Chemical identification of the substance/preparation	
67-63-0 isopropyl alcohol	0.1%

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4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- 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: 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: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 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.
 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.

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	· Reference to other sections	Jointh. of page 2)
	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	
Γ	· PAC-1:	
	67-56-1 methanol	530 ppm
	67-63-0 isopropyl alcohol	400 ppm
	· PAC-2:	
Γ	67-56-1 methanol	2,100 ppm
	67-63-0 isopropyl alcohol	2000* ppm
	· PAC-3:	
ſ	67-56-1 methanol	7200* ppm
Γ	67-63-0 isopropyl alcohol	12000** ppm

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. 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: 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 item 7.

· Control parameters

· Control parameters		
· Components with limit values that require monitoring at the workplace:		
57-56-1 methanol		
PEL Long-term value: 260 mg/m³, 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		
· Ingredients with biological limit values:		
67-56-1 methanol		
BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)		
• 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.

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· 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:*



Tightly sealed goggles

9 Physical and chemical properties

9 Physical and chemical propertie			
· Information on basic physical and c	hemical 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:	64.7 °C (148.5 °F)		
· Flash point:	< 23 °C (< 73.4 °F)		
· Flammability (solid, gaseous):	Highly flammable.		
· Ignition temperature:	455 °C (851 °F)		
• Decomposition temperature:	tion temperature: Not applicable.		
· Auto igniting:	Product is not selfigniting.		
• Danger of explosion:	er of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.		
· Explosion limits:			
Lower:	5.5 Vol %		
Upper:	44 Vol %		
· Vapor pressure at 20 °C (68 °F):	apor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg)		
· Density at 20 °C (68 °F)	0.79 g/cm³ (6.59255 lbs/gal)		
· 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:	Solvent content:		
Organic solvents:	100.0 %		
VOC content:	100.00 %		
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		0.0.0
	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:

67-56-1 methanol

Oral |LD50 | 5,628 mg/kg (rat)

Dermal LD50 15,800 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:
- Toxic

· Carcinogenic categories

· IARC	(International	Agency for	· Research on	Cancer)

67-63-0 isopropyl alcohol

· 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.
- · 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.
 - \cdot **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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1 4 T	
14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1230
· UN proper shipping name	
· DOT · ADR	Methanol 1230 METHANOL
· IMDG, IATA	METHANOL
· Transport hazard class(es)	
·DOT	
· Class	3 Flammable liquids
·Label	3, 6.1
· ADR	
· Class · Label	3 Flammable liquids 3+6.1
· IMDG	570.1
	2 Flour de line de
· Class · Label	3 Flammable liquids 3/6.1
·IATA	
· Class · Label	3 Flammable liquids 3 (6.1)
· Packing group	
· DOT, ADR, IMDG, IATA	11
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code): • EMS Number:	336 F-E,S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 an	nd the IBC Code Not applicable.
· Transport/Additional information:	
· ADR	Code: F2
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
·IMDG	17
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2
Zuccpicu quannos (Dg)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
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· UN "Model Regulation":

UN 1230 METHANOL, 3 (6.1), II

15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara · Section 313 (Specific toxic chemical listings): All ingredients are listed. · TSCA (Toxic Substances Control Act): All components have the value ACTIVE. · Hazardous Air Pollutants 67-56-1 methanol · 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: 67-56-1 methanol · Carcinogenic categories

· EPA (Environmental Protection Agency) None of the ingredients is listed. · TLV (Threshold Limit Value) 67-63-0 isopropyl alcohol A4· 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:
- methanol
- Hazard statements

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H370 Causes damage to the central nervous system and the visual organs.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P307+P311 IF exposed: Call a POISON CENTER or doctor/physician. P321 Specific treatment (see on this label).
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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

· Contact:

Spex CertiPrep, LLC.

1-732-549-7144

· Date of preparation / last revision 06/20/2023

· 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

- REL: Récommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids Category 2 Acute Toxicity Inhalation 3: Acute toxicity Category 3 Specific Target Organ Toxicity Single Exposure 1: Specific target organ toxicity (single exposure) Category 1