

Reviewed on 10/20/2016

1 Identification

- · Product identifier
- · Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade
- · Article number: 300011
- · CAS Number:
- 64-17-5
- *EC number:* 200-578-6
- · Index number:
- 603-002-00-5
- · Molecular Formula C2 H6 O
- · Molecular Weight 46.07 g/mol
- · Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- Information department: Quality Control Department
 Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.



Acute Tox. 4 H302 Harmful if swallowed. Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

(Contd. on page 2)

US

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Methanol Isopropyl Alcohol Haard statements Highly flammable liquid and vapor. Highly flammable liquid and vapor. Causes serious eve irritation. Causes damage to organs. Precautionary statements Wear protective gloves / eye protection / face protection. Keep away from hear/sparks/sopen flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breath dust/fune/gas/mist/approx/spray. Ground/bond container and receiving equipment. Keep coupting in astrophysical systems and receiving equipment. Keep container rightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughtly differ handling. Do not eat, drink or smoke when using this product. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Insee cautiousky with water for several minutes. Remove contact lenses. if present and easy to a Continue rinsing. Specific treatment (see on this label). IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Rinse mouth. Rose of fine: Use for ex		(Contd. of page
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Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.		
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.		
PBT: Not applicable. vPvB: Not applicable.	Other hazards	
PBT: Not applicable. vPvB: Not applicable.	Results of PBT and vPvB assessment	
	PBT: Not applicable.	
Composition/information on ingredients	vPvB: Not applicable.	
Composition/information on ingredients		
Composition/information on ingredients		
	Composition/information on ingredients	

• CAS No. Description 64-17-5 ethanol

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

 Identification numbe EC number: 200-578 Index number: 603-0 	8-6	(Contd. of page 2)
· Dangerous compone	nts:	
CAS: 67-56-1 EINECS: 200-659-6 RTECS: PC1400000	Methanol	0.1-1%
CAS: 67-63-0 EINECS: 200-661-7 RTECS: NT8050000	Isopropyl Alcohol	0.1-1%

4 First-aid measures

· Description of first aid measures

• General information:

Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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:

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult 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:
- 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.

 \cdot Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically, dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

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· 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.

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes. 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: 15-30 °C

- Requirements to be met by storerooms and receptacles: No special requirements.
- \cdot Further information about storage conditions:
- Store in nitrogen.

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:
 64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

- REL Long-term value: 1900 mg/m³, 1000 ppm
- TLV Short-term value: 1880 mg/m³, 1000 ppm

67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm
- Skin TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm
- Long-term value: 262 mg/m³, 200 ppm Skin; BEI

67-63-0 Isopropyl Alcohol

- PEL Long-term value: 980 mg/m³, 400 ppm
- REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
- TLV Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI

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67-5	56-1 Methanol
BEI	15 mg/L urine end of shift Methanol (background, nonspecific)
Add	<i>itional information:</i> The lists that were valid during the creation were used as basis.
Exp Pers Gen Keep Imm Was Avon Avon Avon Drea In ca	osure controls sonal protective equipment: eral protective and hygienic measures: p away from foodstuffs, beverages and feed. mediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. id contact with the eyes. id contact with the eyes and skin. athing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u iratory protective device that is independent of circulating air. tection of hands:
entre Litte	Protective gloves
Due chen Sele Mat The varia Pen The obse	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ to nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality ar es from manufacturer to manufacturer. etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be erved. protection:
	Tightly sealed goggles

 Information on basic physic General Information 	cal and chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Indeterminate	
• Odor threshold:	Not determined.	
· pH-value:	Not determined.	

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

	(Contd. of page 5
• Change in condition Boiling point/Boiling range:	Undetermined.
· Flash point:	13 °C (55 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	3.5 Vol %
Upper:	15.0 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44 mm Hg)
· Density:	Not Applicable
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	Not Determined
• Water at 20 °C (68 °F):	1.000 g/l
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	1.2 mPas
Kinematic:	Not determined.
Organic solvents:	99.0 %
VOC content:	99.0 %
	990.0 g/l / 8.26 lb/gl
• 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.

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

(Contd. of page 6)

		t are relevant for classification:	
64-17-5 et			
Oral	LD50	7060 mg/kg (rat)	
Inhalative	LC50/4 h	20000 mg/L (rat)	
on the eye Sensitizati		g effect. nsitizing effects known.	
on the eye Sensitizati Additional	: Irritating on: No sen	ant effect. 3 effect. nsitizing effects known. r ical information:	
on the eye Sensitizati Additional Carcinoge	: Irritating on: No sen I toxicologi enic categor	ant effect. 3 effect. nsitizing effects known. r ical information:	
on the eye Sensitizati Additional Carcinoge	: Irritating on: No sen. I toxicologi mic categor ernational	ant effect. 3 effect. nsitizing effects known. ical information: pries	

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not 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 (Assessment by list): 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:* Can not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.

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		(Contd. of page
• Recommended cleansing agent: Water	if necessary with cleaning agents.	
Tuanan out information		
Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	UN1170	
· UN proper shipping name		
· DOT · ADR	Ethanol 1170 Ethanol	
·IMDG	ETHANOL (ETHYL ALCOHOL)	
·IATA	ETHANOL	
· Transport hazard class(es)		
·DOT		
3		
· Class	3 Flammable liquids	
· Label	3	
ADR, IMDG, IATA		
· Class	3 Flammable liquids	
Label	3	
· Packing group · DOT, ADR, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
· Special precautions for user	Warning: Flammable liquids	
• Danger code (Kemler):	33	
EMS Number:	F-E,S-D	
Stowage Category	A	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· Transport/Additional information:		
· DOT		
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
· ADR		
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

		(Contd. of page 8)
· IMDG · Limited quantities (LQ)		
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
· UN "Model Regulation":	UN 1170 ETHANOL, 3, 11	

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

67-56-1 Methanol

67-63-0 Isopropyl Alcohol

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

64-17-5 ethanol

67-56-1 Methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

67-63-0 Isopropyl Alcohol

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

Substance is not listed.

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



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AЗ

A4

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

Signal word Danger	(Contd. of page 9)
Hazard-determining components of labeling:	
Methanol	
Isopropyl Alcohol	
Hazard statements	
Highly flammable liquid and vapor.	
Harmful if swallowed.	
Causes serious eye irritation.	
Causes damage to organs.	
Precautionary statements	
Wear protective gloves / eye protection / face protection.	
Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Ground/bond container and receiving equipment.	
Keep container tightly closed.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/sh	ower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pr	
Continue rinsing.	2
Specific treatment (see on this label).	
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
If eye irritation persists: Get medical advice/attention.	
Rinse mouth.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store locked up.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regu Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	lations.

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: Quality Control Dept.

· Date of preparation / last revision 10/20/2016 / -

ADR: Accord européen sur le transport 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

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)
- 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

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[·] Abbreviations and acronyms:

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Trade name: Alcohol, Anhydrous, Reagent, HPLC/Spectro Grade

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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 Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 1: Specific target organ toxicity (single exposure) – Category 1