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Reviewed on 10/25/2022

1 Identification

- · Product identifier
- · Product Name: Internal Standard
- · Part Name: 624-I
- · 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



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	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.

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 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)

HEALTH*1FIRE3Fire = 3REACTIVITY0

- 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	99.7%
3017-95-6 2-Bromo-1-chloropropane	0.1%
· Chemical identification of the substance/preparation	
74-97-5 bromochloromethane	0.1%
540-36-3 1,4-difluorobenzene	0.1%

Safety Data Sheet

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.*
- 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.

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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:	
67-56-1 methanol	530 ppm
74-97-5 bromochloromethane	600 ppm
· PAC-2:	
67-56-1 methanol	2,100 ppm
74-97-5 bromochloromethane	830 ppm
• PAC-3:	
67-56-1 methanol	7200* ppm
74-97-5 bromochloromethane	5,000 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.
- \cdot 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

- · Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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	TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI		
· Ingr	edients with biological limit values:		
67-5	6-1 methanol		
	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)		
· Addi	tional information: The lists that were valid during the creation were used as basis.		
· Expa	osure 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. Safety Data Sheet acc. to OSHA HCS

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- 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:*



Tightly sealed goggles

9 Physical and chemical properties

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Information on basic physical and c General Information Appearance:	chemical properties	
Form:	Liquid	
	Liquid	
Color:	According to product specification	
· Odor:	Characteristic	
· Odour Threshold:	Not applicable.	
· pH-value:	Not applicable.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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:	Not applicable.	
· Auto igniting:	Product is not selfigniting.	
• Danger 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):	128 hPa (96 mm Hg)	
· Density	Not applicable.	
· Relative density	Not applicable.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	99.7 %	
VOC content:	99.70 %	
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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)

None of the ingredients is listed.

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



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In N.Number UN1230 I ON, PORE MADE, IATA UN1230 I ON proper shipping name Methanol 1007 Methanol 1006, IATA METHANOL 1007 Image of hazard class(se) I OT Image of hazard class(se)	14 Transport information	
 DOT, ADR, MDG, IATA UN 200 US proper shipping nome OT MAR IZ30 METHANOL MIDG, IATA MERIANOL MIDG (ATA MERIANOL MERIANOL Interventional bacards: OCass S Floremable liquids A 6.1 ADR Class Class<th></th><th></th>		
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DOT		
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· MDG • Class 3 Flammable liquids · Label 3/6.1 • IATA 3/6.1 • VATA - Class • Class 3 Flammable liquids • Label 3/6.1 • Class 3 Flammable liquids • Label 3 (6.1) • Class 3 Flammable liquids • Label 3 (6.1) • Packing group 3 (6.1) • DOT, ADR, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Flammable liquids • Hazard identification number (Kemler code): 3/3 • Stowage Code SW 2 Clear of living quarters. • Transport/Additional information: SW 2 Clear of living quarters. • Transport/Additional information: - Code: E2 • ADR Code: E2 • MDG Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 50 ml		
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• Class 3 Flammable liquids • Label 3 (6.1) • Packing group 3 (6.1) • DoT, ADR, IMDG, IATA II • Dor, ADR, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Flammable liquids • Hazard identification number (Kemler code): 336 • Stowage Code B • Stowage Code SW2 Clear of living quarters. • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Stowage Code • Transport/Additional information: . • ADR Code: E2 • Excepted quantities (EQ) Code: E2 · MDG IL • Limited quantities (LQ) IL • Limited quantities (EQ) IL • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 30 ml		3 Flammable liquids 3/6.1
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· UN "Model Regulation":

UN 1230 METHANOL, 3 (6.1), II

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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):
67-56-1 methanol
· TSCA (Toxic Substances Control Act):
67-56-1 methanol
74-97-5 bromochloromethane
3017-95-6 2-Bromo-1-chloropropane
· 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)

74-97-5 bromochloromethane

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· 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



GHS02 GHS06 GHS08

· 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.
D2 40	

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



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· 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

- · Contact:
- Spex CertiPrep, LLC.
- 1-732-549-7144

· Date of preparation / last revision 10/25/2022 / -

- · 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) HATA: National Pre Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal dose, 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
- 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

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