

Page 1/9

Reviewed on 02/27/2023

1 Identification

· Product identifier

- Product Name: Long List Appendix IX Mix E
- · Part Name: 8260-E
- · 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

DO 10	
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.

Printing date 02/27/2023

Product Name: Long List Appendix IX Mix E

 P405
 Store locked up.

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

- · 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.

67-56-1 methanol 99.86% • Chemical identification of the substance/preparation 0.02% 67-64-1 acetone 0.02% 75-15-0 carbon disulphide 0.02% 78-93-3 butanone 0.02% 108-05-4 vinyl acetate 0.02% 108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02% 591-78-6 hexan-2-one 0.02%	· Dangerous components:		
67-64-1 actione 0.02% 75-15-0 carbon disulphide 0.02% 78-93-3 butanone 0.02% 108-05-4 vinyl acetate 0.02% 108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02%	67-56-1 n	nethanol	99.86%
75-15-0 carbon disulphide 0.02% 78-93-3 butanone 0.02% 108-05-4 vinyl acetate 0.02% 108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02%	· Chemical	identification of the substance/preparation	
78-93-3 butanone 0.02% 108-05-4 vinyl acetate 0.02% 108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02%	67-64-1	acetone	0.02%
108-05-4 vinyl acetate 0.02% 108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02%	75-15-0	carbon disulphide	0.02%
108-10-1 4-methylpentan-2-one 0.02% 110-75-8 2-chloroethyl vinyl ether 0.02%			0.02%
110-75-8 2-chloroethyl vinyl ether 0.02%	108-05-4	vinyl acetate	0.02%
			0.02%
591-78-6 hexan-2-one 0.02%	110-75-8	2-chloroethyl vinyl ether	0.02%
	591-78-6	hexan-2-one	0.02%

Safety Data Sheet

acc. to OSHA HCS

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.
- $\cdot \textit{After swallowing:} Do not give anything to eat or drink Do not induce vomitting$
- 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.

Page 2/9

Reviewed on 02/27/2023

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

certiprep
Printing date 02/27/2023

Product Name: Long List Appendix IX Mix E

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	• 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 w	ith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
	ontaminated material as waste according to item 13.		
	lequate ventilation.		
	e to other sections		
	on 7 for information on safe handling. on 8 for information on personal protection equipment.		
	on 13 for disposal information.		
	Action Criteria for Chemicals		
· PAC-1:	· · · · ·		
67-56-1	methanol	530 ppm	
	acetone	200 ppm	
75-15-0	carbon disulphide	13 ppm	
	butanone	200 ppm	
	vinyl acetate	6.7 ppm	
	4-methylpentan-2-one	75 ppm	
	2-chloroethyl vinyl ether	0.16 ppm	
591-78-6	hexan-2-one	10 ppm	
· PAC-2:			
	methanol	2,100 ppm	
	acetone	3200* ppm	
	carbon disulphide	160 ppm	
	butanone	2700* ppm	
	vinyl acetate	36 ppm	
	4-methylpentan-2-one	500 ppm	
	2-chloroethyl vinyl ether	1.8 ppm	
591-78-6	hexan-2-one	830 ppm	
· PAC-3:			
	methanol	7200* ppm	
	acetone	5700* ppm	
	carbon disulphide	480 ppm	
	butanone	4000* ppm	
	vinyl acetate	180 ppm	
	4-methylpentan-2-one	3000* ppm	
	2-chloroethyl vinyl ether	11 ppm	
591-78-6	hexan-2-one	5000* 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.
- \cdot 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.

Product Name: Long List Appendix IX Mix E

Page 4/9

(Contd. of page 3)

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:		
67-50	6-1 methanol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm	
	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI	
· Ingre	edients with biological limit values:	
67-56	6-1 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.

· 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		
· Information on basic physical and 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.	
	(Contd. on page	

Product Name: Long List Appendix IX Mix E

		Contd. of page 4
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:	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: Upper:	5.5 Vol % 44 Vol %	
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
 Density at 20 °C (68 °F) Relative density Vapor density Evaporation rate 	0.79018 g/cm³ (6.59405 lbs/gal) Not applicable. Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	e r): Not applicable.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
• Solvent content: Organic solvents: VOC content:	99.9 % 99.90 %	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

Safety Data Sheet

acc. to OSHA HCS

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)	
108-05-4 vinyl acetate	28
108-10-1 4-methylpentan-2-one	28
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
	(Contd. on page 6)

Printing date 02/27/2023

Product Name: Long List Appendix IX Mix E

Reviewed on 02/27/2023

(Contd. of page 5)

· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · 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.

14 Transport information · UN-Number · DOT, ADR, IMDG, IATA UN1230 · UN proper shipping name $\cdot DOT$ Methanol 1230 METHANOL $\cdot ADR$ · IMDG, IATA METHANOL · Transport hazard class(es) $\cdot DOT$ · Class 3 Flammable liquids · Label 3, 6.1 · ADR · Class 3 Flammable liquids · Label 3+6.1· IMDG 3 Flammable liquids · Class (Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Safety Data Sheet acc. to OSHA HCS

Printing date 02/27/2023

Product Name: Long List Appendix IX Mix E

	(Contd. of page 6)
·Label	3/6.1
·IATA	
· Class	3 Flammable liquids
·Label	3 (6.1)
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids 336 F-E,S-D B SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	de Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 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

Sara		
· Section 313 (Specific toxic chemical listings):		
67-56-1 methanol		
75-15-0 carbon disulphide		
108-05-4 vinyl acetate		
108-10-1 4-methylpentan-2-one		
· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
· Hazardous Air Pollutants		
67-56-1 methanol		
75-15-0 carbon disulphide		
108-05-4 vinyl acetate		
108-10-1 4-methylpentan-2-one		
· Proposition 65		
· Chemicals known to cause cancer:		
108-10-1 4-methylpentan-2-one		
· Chemicals known to cause reproductive toxicity for females:		
75-15-0 carbon disulphide		
· Chemicals known to cause reproductive toxicity for males:		
75-15-0 carbon disulphide		
591-78-6 hexan-2-one		
· Chemicals known to cause developmental toxicity:		
67-56-1 methanol		
75-15-0 carbon disulphide		
108-10-1 4-methylpentan-2-one		
(Contd. on page 8)		



Printing date 02/27/2023

Product Name: Long List Appendix IX Mix E

591-78-6 hexan-2-one

U	enic categories	
,	vironmental Protection Agency)	
67-64-1	acetone	Ι
78-93-3	butanone	I
108-10-1	4-methylpentan-2-one	I
591-78-6	hexan-2-one	11
· TLV (Thr	reshold Limit Value)	
67-64-1	acetone	A4
75-15-0	carbon disulphide	A4
108-05-4 vinyl acetate A3		
· NIOSH-C	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.

Drogaution any stat

•	· 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.		

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 02/27/2023

· 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)

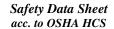
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International of Transport Association 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) LCS0: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

Reviewed on 02/27/2023



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Safety Data Sheet acc. to OSHA HCS

certiprep Printing date 02/27/2023

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Product Name: Long List Appendix IX Mix E

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

Reviewed on 02/27/2023

