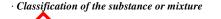


Page 1/8

1 Identification

- · Product identifier
- · Product Name: (-)-delta9-THC
- · Part Name: S-10260
- · 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





H225 Highly flammable liquid and vapor.

GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3



Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

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

Dronabinol (Delta-9-THC) • Hazard statements

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H361 Suspected of damaging fertility or the unborn child.

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.

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/26/2023

Printing date 06/26/2023

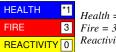
Product Name: (-)-delta9-THC

(Contd. of page 1)

IF exposed or concerned: Get medical advice/attention. P308+P313 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. · Classification system: · NFPA ratings (scale 0 - 4)

Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1Fire = 3Reactivity = 0

· 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%
1972-08-3	Dronabinol (Delta-9-THC)	0.1%

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).

Product Name: (-)-delta9-THC

Page 3/8

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:	
67-56-1 methanol	530 ppm
• PAC-2:	
67-56-1 methanol	2,100 ppm
• PAC-3:	
67-56-1 methanol	7200* ppm

Safety Data Sheet acc. to OSHA HCS

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
- · 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.

67-56-1 methanol

0/-3	6/-50-1 methanol		
PEL	PEL Long-term value: 260 mg/m³, 200 ppm		
	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.

(Contd. of page 2)

Reviewed on 06/26/2023

Product Name: (-)-delta9-THC

Printing date 06/26/2023

· 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	S	
 Information on basic physical and c General Information 	hemical properties	
· 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:	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:	99.9 %	
VOC content:	99.90 %	
		(Contd. on page

(Contd. of page 3)



Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/26/2023

Product Name: (-)-delta9-THC

Solids content:
• Other information

a 11 1

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

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

· 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 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · 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.

(Contd. of page 4)



0.0 %

Product Name: (-)-delta9-THC

 $\cdot \textit{Recommended cleansing agent: Water, if necessary with cleansing agents.}$

(Contd. of page 5)

Page 6/8

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1230
· UN proper shipping name · DOT · ADR · IMDG, IATA	Methanol 1230 METHANOL METHANOL
Transport hazard class(es) DOT TOXIC TOXIC TOXIC	
· Class · Label	3 Flammable liquids 3, 6.1
· ADR	
· Class · Label	3 Flammable liquids 3+6.1
· IMDG	
· Class · Label	3 Flammable liquids 3/6.1
· Class · Label	3 Flammable liquids 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 t	he IBC Code 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)	IL
	(Contd. on page

Safety Data Sheet acc. to OSHA HCS

Page 7/8

Product Name: (-)-delta9-THC

Reviewed o	n 06/26/202.
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	(Contd. of page 6)
· 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 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):
67-56-1 methanol
· TSCA (Toxic Substances Control Act):
67-56-1 methanol 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)

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



· Signal word Danger

- · Hazard-determining components of labeling:
- methanol
- Dronabinol (Delta-9-THC)

· Hazard statements

- H225 Highly flammable liquid and vapor.
- H331 Toxic if inhaled.

H361 Suspected of damaging fertility or the unborn child.

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

· Precautionary statements

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



Product Name: (-)-delta9-THC

Reviewed on 06/26/2023

(Contd. of page 7)

Page 8/8

US -

P405	
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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 06/26/2023

· Abbreviations and acronyms:

- ADR: Accord relatif at 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 (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 Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Category 1