

# Safety Data Sheet acc. to OSHA HCS

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### 1 Identification

- · Product identifier
- · Product Name: <u>Acetone</u>
- Part Name: S-140
- · 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

D110	$V_{1}$ , $V_{2}$ , $V_{3}$ , $V_{4}$ , $V_{4$	- 1. · · · ·
P210	Keep away from heat/sparks/open flames/hot surfaces No smo	)KINQ
1 = 10	neep anay from near sparns, open frames, not surfaces. The since	

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.

# **Product Name: Acetone**

P405 Store locked up. 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)



- · 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		
67-64-1 acetone	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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<ul> <li>Reference to other section</li> </ul>	Reference to	o other	section
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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
67-64-1 acetone		200 ppm
• PAC-2:		
67-56-1 methanol		2,100 ppm
67-64-1 acetone		3200* ppm
- PAC-3:		
67-56-1 methanol		7200* ppm
67-64-1 acetone		5700* ppm

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#### 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

00.11	for parameters		
· Com	· Components with limit values that require monitoring at the workplace:		
67-56-1 methanol			
PEL	PEL Long-term value: 260 mg/m <sup>3</sup> , 200 ppm		
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin		
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI		
·Ingr	edients with biological limit values:		
67-56-1 methanol			
	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 properties		
· Information on basic physical and c	hemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	lor: Alcohol-like	
· Odor:		
Odour Threshold:     Not applicable.		
<b><i>Not applicable.</i></b>		
· Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	64.7 °C (148.5 °F)	
· Flash point:	< 23 °C (< 73.4 °F)	
· Flammability (solid, gaseous):	Flammability (solid, gaseous):       Highly flammable.	
· Ignition temperature:	455 °C (851 °F)	
Decomposition temperature: Not applicable.		
· Auto igniting:	to 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 at 20 °C (68 °F)	0.79 g/cm <sup>3</sup> (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/wate	r): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	99.90 %	
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#### Product Name: Acetone

Solids content:

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.

0.0 %

#### 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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14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1230
<ul> <li>UN proper shipping name</li> <li>DOT</li> <li>ADR</li> </ul>	Methanol 1230 METHANOL
· IMDG, IATA	METHANOL
Transport hazard class(es)     DOT	
·Class	3 Flammable liquids
· Label	3, 6.1
· ADR	
· Class	3 Flammable liquids 3+6.1
· Label · IMDG	5+0.1
· Class · Label	3 Flammable liquids 3/6.1
·IATA	
· Class · Label	3 Flammable liquids 3 (6.1)
· Packing group	
· DOT, ADR, IMDG, IATA · Environmental hazards:	II 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 an	d the 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) · Excepted quantities (EQ)	1L Code: E2 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

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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):

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)
 I

 67-64-1
 acetone
 I

 • TLV (Threshold Limit Value)
 I

 67-64-1
 acetone
 A4

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

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 10/12/2022 / -

#### · 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) 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