

**1 Identification**

- **Product identifier**
- **Product Name:** Organic Wine Standard 3
- **Part Number:** WINE-3
- **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
- **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**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT SE 1 H370 Causes damage to organs.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

- **Label elements**

- **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  
carbon disulphide  
dimethyl disulphide  
propane-2-thiol

- **Hazard statements**

H225 Highly flammable liquid and vapor.  
H330 Fatal if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H370 Causes damage to organs.  
H372 Causes damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

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.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **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	86.0%
75-33-2	propane-2-thiol	1.0%
75-66-1	2-Methyl-2-propanethiol	1.0%
110-02-1	thiophene	1.0%
872-55-9	2-Ethylthiophene	1.0%
75-08-1	ethanethiol	1.0%
624-89-5	Ethyl Methyl Sulfide	1.0%
110-81-6	diethyldisulfane	1.0%
624-92-0	dimethyl disulphide	1.0%
75-18-3	Dimethyl sulfide	1.0%
352-93-2	diethyl sulphide	1.0%
74-93-1	methanethiol	1.0%
110-66-7	pentane-1-thiol	1.0%
554-14-3	2-methylthiophene	1.0%
75-15-0	carbon disulphide	1.0%

**4 First-aid measures**

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
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 vomiting
- **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:** CO<sub>2</sub>, 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.

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- **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.
- **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
75-08-1	ethanethiol	1.0 ppm
624-92-0	dimethyl disulphide	0.01 ppm
75-18-3	Dimethyl sulfide	0.5 ppm
74-93-1	methanethiol	0.005 ppm
75-15-0	carbon disulphide	13 ppm

· **PAC-2:**

67-56-1	methanol	2,100 ppm
75-08-1	ethanethiol	120 ppm
624-92-0	dimethyl disulphide	50 ppm
75-18-3	Dimethyl sulfide	1,000 ppm
74-93-1	methanethiol	23 ppm
75-15-0	carbon disulphide	160 ppm

· **PAC-3:**

67-56-1	methanol	7200* ppm
75-08-1	ethanethiol	360 ppm
624-92-0	dimethyl disulphide	250 ppm
75-18-3	Dimethyl sulfide	5000* ppm
74-93-1	methanethiol	68 ppm
75-15-0	carbon disulphide	480 ppm

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Only handle and refill product in closed systems.  
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.

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· **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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 67-56-1 methanol

PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 260 mg/m<sup>3</sup>, 200 ppm  
Skin

TLV Short-term value: 328 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 262 mg/m<sup>3</sup>, 200 ppm  
Skin; BEI

#### 75-08-1 ethanethiol

PEL Ceiling limit value: 25 mg/m<sup>3</sup>, 10 ppm

REL Ceiling limit value: 1.3\* mg/m<sup>3</sup>, 0.5\* ppm  
\*15 min

TLV Long-term value: 1.3 mg/m<sup>3</sup>, 0.5 ppm

#### 624-92-0 dimethyl disulphide

TLV Long-term value: 2 mg/m<sup>3</sup>, 0.5 ppm  
Skin

#### 75-18-3 Dimethyl sulfide

TLV Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

#### 74-93-1 methanethiol

PEL Ceiling limit value: 20 mg/m<sup>3</sup>, 10 ppm

REL Ceiling limit value: 1\* mg/m<sup>3</sup>, 0.5\* ppm  
\*15-min

TLV Long-term value: 0.98 mg/m<sup>3</sup>, 0.5 ppm

#### 110-66-7 pentane-1-thiol

REL Ceiling limit value: 2.1\* mg/m<sup>3</sup>, 0.5\* ppm  
\*15-min

#### 75-15-0 carbon disulphide

PEL Long-term value: 20 ppm  
Ceiling limit value: 30; 100\* ppm  
\*30-min peak per 8-hr shift

REL Short-term value: 30 mg/m<sup>3</sup>, 10 ppm  
Long-term value: 3 mg/m<sup>3</sup>, 1 ppm  
Skin

TLV Long-term value: 3.13 mg/m<sup>3</sup>, 1 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)

#### 75-15-0 carbon disulphide

BEI 0.5 mg/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: 2-Thiothiazolidine-4-carboxylic acid (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.

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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.  
**Boiling point/Boiling range:** 64.7 °C (148.5 °F)

• **Flash point:** < 23 °C (<73.4 °F)

• **Flammability (solid, gaseous):** Not applicable.

• **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 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/water):** Not applicable.

• **Viscosity:**

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

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· **Solvent content:**  
**Organic solvents:** 87.0 %  
**VOC content:** 87.00 %

· **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)

**75-08-1 ethanethiol**

Oral	LD50	682 mg/kg (rat)
Inhalative	LC50/4 h	4,420 mg/l (rat)

**75-15-0 carbon disulphide**

Oral	LD50	3,188 mg/kg (rat)
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- **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  
 Very 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 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.

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- **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

· <b>UN-Number</b> · <b>DOT, ADR, IMDG, IATA</b>	UN1230
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>ADR</b> · <b>IMDG, IATA</b>	Methanol 1230 METHANOL METHANOL
· <b>Transport hazard class(es)</b> · <b>DOT</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3, 6.1
· <b>ADR</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3+6.1
· <b>IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3/6.1
· <b>IATA</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3 (6.1)
· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids 336 F-E,S-D B

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· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1230 METHANOL, 3 (6.1), II

### 15 Regulatory information

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

· <b>Section 313 (Specific toxic chemical listings):</b>	
67-56-1	methanol
74-93-1	methanethiol
75-15-0	carbon disulphide
· <b>TSCA (Toxic Substances Control Act):</b>	
67-56-1	methanol
75-33-2	propane-2-thiol
75-66-1	2-Methyl-2-propanethiol
110-02-1	thiophene
75-08-1	ethanethiol
624-89-5	Ethyl Methyl Sulfide
110-81-6	diethyldisulfane
624-92-0	dimethyl disulphide
75-18-3	Dimethyl sulfide
352-93-2	diethyl sulphide
74-93-1	methanethiol
110-66-7	pentane-1-thiol
554-14-3	2-methylthiophene
75-15-0	carbon disulphide
· <b>TSCA new (21st Century Act): (Substances not listed)</b>	
110-02-1	thiophene
872-55-9	2-Ethylthiophene
352-93-2	diethyl sulphide
110-66-7	pentane-1-thiol
554-14-3	2-methylthiophene
· <b>Proposition 65</b>	
· <b>Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for females:</b>	
75-15-0	carbon disulphide
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
75-15-0	carbon disulphide
· <b>Chemicals known to cause developmental toxicity:</b>	
67-56-1	methanol
75-15-0	carbon disulphide

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· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

75-15-0 carbon disulphide

A4

· **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

carbon disulphide

dimethyl disulphide

propane-2-thiol

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H330 Fatal if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

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.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store locked up.

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** 02/28/2019 / -· **Abbreviations and acronyms:**

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEL: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 2: Acute toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1