Printing date 03/28/2019

Version Number 2

Reviewed on 03/28/2019

### **1** Identification

· Product identifier

· Trade name: 2,4-D Methyl Ester Standard (1X1 mL)

- · Part number: HB-101-1
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA

#### · Information department:

Telephone: 800-227-9770 e-mail: pdl-msds\_author@agilent.com • Emergency telephone number: CHEMTREC®: 1-800-424-9300

# 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. 3 H331 Toxic if inhaled.

GHS08 F

GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

· 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

Highly flammable liquid and vapor. Toxic if inhaled. Causes damage to organs.

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### Trade name: 2,4-D Methyl Ester Standard (1X1 mL)

(Contd. of page 1) · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Specific treatment (see on this label). In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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) HEALTH Health = \*1\*1 FIRE Fire = 33 **REACTIVITY** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# **3** Composition/information on ingredients

· Chemical characterization: Mixtures

 $\cdot$  **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-56-1 methanol

99.987%

### **4 First-aid measures**

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

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### Trade name: 2,4-D Methyl Ester Standard (1X1 mL)

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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: If symptoms persist consult doctor.
- · 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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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: 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 · PAC-2: 67-56-1 methanol 2,100 ppm · PAC-3: 67-56-1 methanol 7200\* 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

· Components with limit values that require monitoring at the workplace: 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 · 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.

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#### · Breathing equipment:

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When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

#### **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

#### · Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

#### · Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

Eye protection:



Tightly sealed goggles

Physical and chemical proper	
Information on basic physical and o	chemical properties
General Information	
Appearance: Form:	Fluid
Form: Color:	Colorless
Odor:	Alcohol-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
Flash point:	9 °C (48.2 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	455 °C (851 °F)
Decomposition temperature:	Not determined.
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 %

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	(Contd. o	f page £
Upper:	44 Vol %	
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)	
· Density at 20 °C (68 °F):	0.8 g/cm <sup>3</sup> (6.676 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	99.99 %	
	999.9 g/l / 8.34 lb/gal	
• 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:

### **ATE (Acute Toxicity Estimate)**

### Inhalative LC50/4 h 3 mg/L

#### 67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

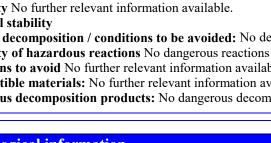
#### · Primary irritant effect:

• on the skin: No 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:

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# Safety Data Sheet acc. to OSHA HCS

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### Trade name: 2,4-D Methyl Ester Standard (1X1 mL)

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.

- <sup>.</sup> 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.

• Recommendation: Disposal must be made according to official regulations.

# **14 Transport information**

· Not Regulated, De minimus Quar	ntities -	
· UN-Number · DOT, IMDG, IATA	UN1230	
· UN proper shipping name · DOT · IMDG · IATA	Methanol solution METHANOL solution METHANOL mixture	
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<sup>·</sup> Uncleaned packagings:

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Label3, 6.1IMDGIMDGImited quantities (LQ)Imited quantities (LQ)Imited quantities (LQ)IMDGImited quantities (LQ)ILImited quantities (LQ)ILIMDGIMDGImited quantities (LQ)ILImited quantities (LQ)ILImited quantities (LQ)ILImited quantities (LQ)ILImited quantities (LQ)ILImited quantities (LQ)ILImited quantities (LQ)IL			Contd. of page
Vertical Sector 3 Flammable liquids   Label 3, 6.1   MDG 3 Flammable liquids   Vertical Sector 3 Flammable liquids   Label 3 Flammable liquids   Jabel 3 (6.1)   Packing group Journame   DOT, MDG, LATA II   Environmental hazards: Not applicable.   Special precautions for user Warning: Flammable liquids   Ja36 Sugar Code   Stowage Code SW2 Clear of living quarters.   Transport in bulk according to Annex II of MARPOLT3/8 and the IBC Code Not applicable.   Transport/Additional information: Don cargo aircraft only: 60 L   DOT On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L   MDG IL   Excepted quantities (LO) IL   Excepted quantities (EQ) IL   Code: E2 Maximum net quantity per inner packaging: 30 ml	Transport hazard class(es)		
Label 3, 6.1   IMDG IMDG   IMDG Secondary Seco	DOT		
Label 3, 6.1   IMDG IMDG   IMDG Second   Class 3 Flammable liquids   Label 3/6.1   IATA Second   Second Second   IATA Second   Second Seconde   Second			
IMDG   IMDG   Impose in the impo	Class	3 Flammable liquids	
View 3   Class 3   Label 3/6.1   IATA View   View View   View View   Class 3   Flammable liquids   Jane 3   View View   View 3   Class 3   Label 3   Otass 3   Secial precautions for user Varning: Flammable liquids   Dager code (Kemler): 336   EMS Number: F-E,S-D   Stowage Category B   Stowage Category B   Stowage Code SW2 Clear of living quarters.   Transport in bulk according to Annex II of MaxPOL73/78 and the IBC Code   MARPOL73/78 and the IBC Code Not applicable.   Transport/Additional information: On passenger aircraft/rail: 1 L   On cargo aircraft only: 60 L IL   Excepted quantities (LQ) 1L   Excepted quantities (EQ) 1L   Kaimum net quantity per inner packaging: 30 ml	Label	3, 6.1	
Label 3/6.1   IATA IATA   IATA I   Class 3 Flammable liquids   Label 3 (6.1)   Packing group Jot (AIA)   DOT, IMDG, IATA II   Environmental hazards: Not applicable.   Special precautions for user Warning: Flammable liquids   Danger code (Kemler): 336   EMS Number: F-E,S-D   Stowage Code SW2 Clear of living quarters.   Transport in bulk according to Annex II of Not applicable.   MARPOL73/78 and the IBC Code Not applicable.   Transport/Additional information: DOT   Quantity limitations On passenger aircraft/rail: 1 L   On cargo aircraft only: 60 L IMDG   Limited quantities (LQ) IL   Excepted quantities (LQ) IL   Excepted quantities (EQ) IL   Excepted quantities (EQ) IL	IMDG		
Label 3/6.1   IATA IATA   IATA I   Class 3 Flammable liquids   Label 3 (6.1)   Packing group Jot (AIA)   DOT, IMDG, IATA II   Environmental hazards: Not applicable.   Special precautions for user Warning: Flammable liquids   Danger code (Kemler): 336   EMS Number: F-E,S-D   Stowage Code SW2 Clear of living quarters.   Transport in bulk according to Annex II of Not applicable.   MARPOL73/78 and the IBC Code Not applicable.   Transport/Additional information: DOT   Quantity limitations On passenger aircraft/rail: 1 L   On cargo aircraft only: 60 L IMDG   Limited quantities (LQ) IL   Excepted quantities (LQ) IL   Excepted quantities (EQ) IL   Excepted quantities (EQ) IL			
IATA Vertical Second S		3/6.1	
Class 3 Flammable liquids   Label 3 (6.1)   Packing group Jon (6.1)   Dor, IMDG, IATA II   Environmental hazards: Not applicable.   Special precautions for user Warning: Flammable liquids   Danger code (Kemler): 336   EMS Number: F-E,S-D   Stowage Category B   Stowage Code SW2 Clear of living quarters.   Transport in bulk according to Annex II of Mot applicable.   MARPOL73/78 and the IBC Code Not applicable.   Toransport/Additional information: DOT on passenger aircraft/rail: 1 L on cargo aircraft only: 60 L   IMDG IL   Limited quantities (LQ) IL   Excepted quantities (EQ) IL   Excepted quantities (EQ) IL   Karimum net quantity per inner packaging: 30 ml	ΙΑΤΑ		
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Danger code (Kemler):336EMS Number:F-E,S-DStowage CategoryBStowage CodeSW2 Clear of living quarters.Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:Not applicable.DOT Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 LIMDG Limited quantities (LQ)1L Code: E2 Maximum net quantity per inner packaging: 30 ml	Environmental hazards:	Not applicable.	
Danger code (Kemler):336EMS Number:F-E,S-DStowage CategoryBStowage CodeSW2 Clear of living quarters.Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:Not applicable.DOT Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 LIMDG Limited quantities (LQ)1L Code: E2 Maximum net quantity per inner packaging: 30 ml	Special precautions for user	Warning: Flammable liquids	
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DOT On passenger aircraft/rail: 1 L   Quantity limitations On passenger aircraft/rail: 1 L   On cargo aircraft only: 60 L   IMDG   Limited quantities (LQ) 1L   Excepted quantities (EQ) Code: E2   Maximum net quantity per inner packaging: 30 ml	Transport in bulk according to Anne	x II of	
DOT On passenger aircraft/rail: 1 L   Quantity limitations On passenger aircraft/rail: 1 L   On cargo aircraft only: 60 L   IMDG   Limited quantities (LQ) 1L   Excepted quantities (EQ) Code: E2   Maximum net quantity per inner packaging: 30 ml	Transport/Additional information:		
Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L   IMDG IL   Excepted quantities (LQ) 1L Code: E2 Maximum net quantity per inner packaging: 30 ml	-		
IMDG 1L   Limited quantities (LQ) 1L   Excepted quantities (EQ) Code: E2   Maximum net quantity per inner packaging: 30 ml			
Limited quantities (LQ)1LExcepted quantities (EQ)Code: E2Maximum net quantity per inner packaging: 30 ml	IMDG		
Maximum net quantity per inner packaging: 30 ml	Limited quantities (LQ)		
	Excepted quantities (EQ)		
Maximum net quantity per outer packaging: 500 ml			
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· UN "Model Regulation":

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UN 1230 METHANOL SOLUTION, 3 (6.1), II

# **15 Regulatory information**

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-56-1 methanol

· TSCA (Toxic Substances Control Act):

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 established by ACGIH)

None of the ingredients is listed.

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

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 03/28/2019 / 1

· 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



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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	
BEI: Biological Exposure Limit	
Flam. Liq. 2: Flammable liquids – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1	
* Data compared to the previous version altered.	



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