# SAFETY DATA SHEET

Countable Fluid

# **SECTION 1: Identification**

#### **GHS Product identifier**

Product name : Countable Fluid Kit Product number : KT0007 Kit Component : Countable Fluid (PR0014)

#### Recommended use of the chemical and restrictions on use

Identified Use : For use in the Countable PCR Instrument (PH0001) for sample imaging

## Supplier's details

Company Name	: Countable Labs, Inc.
	1810 Embarcadero Road, Suite 200
	Palo Alto CA 94303
	United States
Telephone	: +1 (650) 665-7953
Website	: <u>www.countablelabs.com</u>

For research use only. Not for use in diagnostic procedures

# **SECTION 2: Hazard identification**

**Hazard Classification** (GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200) Not a hazardous substance or mixture.

# Signal Word

Warning

Hazard Pictograms None.

Health Hazards Not Hazardous.

## **Physical Hazards**

Flammable Liquids, Category 4

# **Environmental Hazards**

Not Hazardous

## Hazard Statements

H227 — Combustible liquid

#### **Precautionary Statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/eye protection/face protection
P370+P378	In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to licensed waste disposal facility.

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

#### Components

## 1. Dimethyl sulfoxide

Concentration: <= 100 % (weight)\* EC no.: 200-664-3 CAS no.: 67-68-5

## Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

# **SECTION 4: First-aid measures**

## Description of necessary first-aid measures

Skin Contact: Rinse skin with water. Immediate medical attention is not required.

Eye Contact:	Rince cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Notes to Physician:	Treat symptomatically.

## Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary None.

# **SECTION 5: Fire-fighting measures**

## Suitable extinguishing media

Water spray. Carbon dioxide (CO2). Alcohol-resistant foam. Dry chemical.

## Unsuitable extinguishing media

No information available.

## Specific hazards arising from the substance or chemical

None

## Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

# **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, spray. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep away from heat and sources of ignition.

For personal protection see section 8.

### **Environmental precautions**

Should not be released into the environment. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### Reference to other sections

See section 13 for more information.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advice are necessary.

## Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Specific end use(s)

For research use only.

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

Dimethyl sulfoxide CAS: 67-68-5 (EC: 200-664-3) ACGIH: 250 ppm WEEL inhalation

## **Engineering measures**

Ensure adequate ventilation, especially confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal Protective Equipment (PPE)

Eye/face protection:	Wear sealing safety glasses.
Hand protection:	Wear suitable gloves. Gloves material - compatible
	chemical-resistant gloves.
Skin and body protection:	Wear suitable protective clothing.

Respiratory protection:	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Respiratory protection:	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hygiene Measure:	Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

Appearance:	Clear liquid	
Odor:	Slight sulfur or onion and garlic like smell	
Odor threshold:	No data	
pH:	No data	
Melting point/freezing point:	18.5 °C (65.3 °F) - based on pure DMSO	
Boiling point/boiling range:	189 °C (372.2 °F) - based on pure DMSO	
Flash point:	> 95 °C (188.6 °F) - Closed Cup	
Auto-ignition temperature:	No data	
Decomposition temperature:	No data	
Evaporation rate:	No data	
Flammability (solid, gas):	No data	
Upper flammable or explosive limits:	No data	
Lower flammable or explosive limits:	No data	
Vapor pressure:	No data	
Vapor density:	No data	
Relative density:	No data	
Specific density:	No data	
Solubility:	No data	
Partition coefficient; n-octanol/water: No data		
Viscosity:	No data	
Explosive properties:	No data	

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Oxidizing properties:	No data
Other information:	No data

# SECTION 10: Stability and reactivity

#### Reactivity

None known, based on information available.

#### **Chemical stability** Stable under normal conditions.

# Possibility of hazardous reactions

Hazardous reaction has not been reported.

**Conditions to avoid** No information available.

**Incompatible materials** Strong acids, Strong oxidizing agents, Strong bases, Alkali metals

#### Hazardous decomposition products No data available.

# **SECTION 11: Toxicological information**

Information on toxicological effects

## Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact.

## Components:

Dimethyl sulfoxide LD50 Skin - Rat - > 5,000 mg/kg LD50 Oral - Rat - 14,500 mg/kg LC50 Inhalation - Rat - 40250 ppm

## Symptoms (including delayed and immediate effects):

Inhalation: Ingestion:	May cause respiratory irritation. include cough, sneezing, nasal hoarseness, and nose and throa May cause gastrointestinal irrita include abdominal pain, stomad and diarrhea.	discharge, headache, at pain. ition. Signs/symptoms may
Skin corrosion/irritation	and diarrnea.	
Based on Dimethyl sulfoxide		
OECD Test Guideline 404 Skin irritation	- Rabbit - 4 h	Result: Slight
Serious eye damage/irritation Based on Dimethyl sulfoxide		
OECD Test Guideline 405 Eyes irritation	- Rabbit - 24 h	Result: Slight
Respiratory or skin sensitizatior	ı	
Based on Dimethyl sulfoxide		
OECD Test Guideline 406 Eyes	- Guinea pig	Result: Negative
Germ cell mutagenicity		
Test Type: Ames test		
Test system: Salmonella typhim		
Metabolic activation: with and v Method: OECD Test Guideline		Result: negative
Meniod. OLOD Test duideline -	†/I	Nesuli, negalive

Test Type: sister chromatid excha Test system: Chinese hamster c Metabolic activation: with and v Method: OECD Test Guideline	ovary cells vithout metabolic activation	Result: negative
Test Type: Mutagenicity (mammal cell test): chromosome aberration Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative		C C
Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative		
Carcinogenicity		
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.	
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
NTP:	No component of this product p or equal to 0.1% is identified as carcinogen by NTP.	· ·

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## **Reproductive toxicity**

No data available.

## Summary of evaluation of the CMR properties

No data available.

## Specific target organ toxicity (STOT) - single exposure

No data available.

## Specific target organ toxicity (STOT) - repeated exposure

No data available.

## Aspiration hazard

No data available.

# **SECTION 12: Ecological information**

## Toxicity

Dimethyl sulfoxide

- LC50 Pimephales promelas (fathead minnow) 34,000 mg/l 96 h
- LC50 Oncorhynchus mykiss (rainbow trout) 35,000 mg/l 96 h
- EC50 Daphnia magna (water flea) 24,600 mg/l 48 h
- EC50 Pseudokirchneriella subcapitata (green algae) 17,600 mg/l 72 h

## Persistence and degradability

Dimethyl sulfoxide

Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable.

## **Bioaccumulative potential**

No data available.

## Mobility in soil

No data available.

## Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## Endocrine disrupting properties

No data available

## Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## Waste Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

# **SECTION 14: Transport information**

## IATA / ADR / DOT (US) / IMDG

Not classified as dangerous in the meaning of transport regulations

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question.

## US EPA TSCA public inventory

Chemical name: Dimethyl sulfoxide CAS number: 67-68-5

## **U.S. Federal Regulations**

SARA 302 Components	Not applicable
SARA 313 Components	Not applicable
SARA 311/312 Hazards	Not applicable
Clean Air Act	Not Applicable
U.S. Federal Regulations	
California Prop. 65 Components	This product does not contain any chemicals known

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

## Further information/disclaimer

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED,INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.