



# Safety Data Sheet

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Identification of the substance or mixture

**Product code** Q32854COMPONENTA  
**Product name** Qubit® dsDNA HS Reagent \*200X concentrate in DMSO\*

### Company/undertaking identification

Life Technologies Corporation  
5781 Van Allen Way  
PO Box 6482  
Carlsbad, CA 92008  
+1 760 603 7200

Life Technologies  
5250 Mainway Drive  
Burlington, ONT  
CANADA L7L 6A4  
800/263-6236

**24 hour Emergency Response:** 866-536-0631  
301-431-8585  
Outside of the U.S. +1-301-431-8585

**Country specific Emergency Number (if available):**  
CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

**For Research Use Only. Not for use in diagnostic procedures.**

## SECTION 2: Hazards identification

### GHS - Classification

**Signal Word**  
WARNING

**Health hazards**  
Not Hazardous

### Physical hazards

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 4

**Hazard Statements**  
H227 - Combustible liquid

### Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P370 + P378 - In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction

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## Principle Routes of Exposure

### Potential Health Effects

**eyes**

Mild eye irritation.

**Skin**

Mild skin irritation. Components of the product may be absorbed into the body through the skin.

### Specific effects

**Carcinogenic effects**

None.

**Mutagenic effects**

None.

**Reproductive toxicity**

None.

**Sensitization**

No sensitization responses were observed.

**Target Organ Effects**

No known effects under normal use conditions.

## HMIS

Health	1
Flammability	2
Reactivity	0

## SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
dimethylsulfoxide 67-68-5 ( 95-100 )	67-68-5	200-664-3	95-100

We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

**Skin contact**

Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

**Ingestion**

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**inhalation**

Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Most important symptoms and effects, both acute and delayed**

H227 - Combustible liquid

**Notes to Physician**

Treat symptomatically.

## SECTION 5: Firefighting measures

**Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit.

**Specific hazards arising from the chemical**

Not known

## SECTION 6: Accidental release measures

**Personal precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment.

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**Methods for cleaning up** Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

### Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

## SECTION 7: Handling and storage

**Handling** Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.

**Storage** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Keep in properly labeled containers.

## SECTION 8: Exposure controls/personal protection

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
dimethylsulfoxide	None	None	None	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	Liquid
<b>Appearance</b>	No information available
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Boiling point / boiling range</b>	°C 188 - 190 °F 370 - 374
<b>Melting point / melting range</b>	°C 18 - 19 °F 64.4 - 66.2
<b>flash point</b>	°C 87 - 89 °F 188.6 - 192.2
<b>Autoignition Temperature</b>	°C 214 - 216 °F 417.2 - 420.8
<b>Evaporation rate</b>	No data available

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<b>Flammability (solid, gas)</b>	No data available
<b>Oxidizing properties</b>	No information available
<b>Water solubility</b>	miscible
<b>Upper explosion limit</b>	61% - 64%
<b>Lower explosion limit</b>	2.4% - 2.8%
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>vapor density</b>	No data available
<b>Viscosity</b>	No data available
<b>pH value</b>	6-8

## SECTION 10: Stability and reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	Strong acids. Strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. Sulphur oxides. Carbon oxides.
<b>polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
dimethylsulfoxide	14500 mg/kg Oral LD50	>40000 mg/kg bw	>5000 mg/l

### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	Mild eye irritation.
<b>Skin</b>	Mild skin irritation. Components of the product may be absorbed into the body through the skin.
<b>inhalation</b>	No information available.
<b>Ingestion</b>	No information available.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	No sensitization responses were observed.

## SECTION 12: Ecological information

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**Ecotoxicity** The environmental impact of this product has not been fully investigated.  
**Mobility** completely soluble.  
**Biodegradation** Inherently biodegradable.  
**Bioaccumulation** Material does not bioaccumulate.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
dimethylsulfoxide	Skeletonema costatum EC5012350 - 25500 mg/L (96 h)	Daphnia species EC50=7000 mg/L (24 h)			logPow-2.03

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

**IATA**

**Proper Shipping Name** No dangerous good in sense of these transport regulations  
**Hazard Class** None  
**Subsidiary class** None  
**Packing group** None  
**UN-No** none  
**Environmental hazards** None

## SECTION 15: Regulatory information

Component	US TSCA
dimethylsulfoxide 67-68-5 ( 95-100 )	Listed

### US Federal Regulations

#### **SARA 313**

This product is not regulated by SARA.

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

B3 - Combustible liquid



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## SECTION 16: Other information

**Reason for revision** SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. 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 WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**

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