

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)

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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

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 (CO2). 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.

Revision date
Product code07-Mar-2016
Q32854COMPONENTA**Product name** Qubit® dsDNA HS Reagent *200X concentrate in DMSO*
Page 2 / 6

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

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

Revision date 07-Mar-2016
Product code Q32854COMPONENTA

Page 3 / 6
Product name Qubit® dsDNA HS Reagent *200X concentrate in DMSO*

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

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	Strong acids. Strong oxidizing agents.
Possibility of hazardous reactions	Hazardous reaction has not been reported
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Sulphur oxides. Carbon oxides.
polymerization	Hazardous polymerization does not occur.
Conditions to avoid	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

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

SECTION 12: Ecological information

Revision date 07-Mar-2016
Product code Q32854COMPONENTA

Page 4 / 6
Product name Qubit® dsDNA HS Reagent *200X concentrate in DMSO*

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.

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"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

Revision date 07-Mar-2016
Product code Q32854COMPONENTA

Page 6 / 6
Product name Qubit ® dsDNA HS Reagent *200X concentrate in DMSO*