

# Safety Data Sheet - Cover Page

The products listed below meet the criteria for classification as hazardous in accordance with The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Please refer to the indicated Safety Data Sheet (SDS) for information concerning hazards and appropriate protective measures. SDS for products not classified as hazardous are available on request. Visit www.cellsignal.com for additional technical information and support.

Kit No.	Product name			
7003	20X LumiGLO® Reagent and 20X Peroxide			
Kit Component No.	Product name			
7003	20X LumiGLO® Reagent			



Dear Professional Users and Distributors,

Cell Signaling Technology Inc. prides itself in providing you with exceptional customer service and support. After a careful review of the product referenced below, we wish to communicate that a Safety Data Sheet (SDS) is not required for regulatory compliance. This determination has been made after a ensuring that the following product:

# No. 7003 Name: 20X Peroxide

- Does not pose a recognized physical or health hazard as defined under the United States Occupational Safety & Health Administration (OSHA) Hazard Communication Standard 29CFR1910.1200.
- Does not contain a listed chemical under the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 ((PROP65) Health and Safety Code Sections 25249.5 et seq.).
- Does not meet the criteria to be classified under a defined hazard class of the Canadian Workplace Hazardous Materials Information System (WHMIS).
- Is not classified as a hazardous substance or preparation and does not contain substances with European community workplace exposure limits or substances of very high concern above their respective disclosure limits under (EC) No. 1907/2006 (REACH).
- Is not classified as dangerous for transportation as defined by the International Air Transport Association (IATA), the United States Department of Transportation (DOT) and the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Please continue to use good laboratory practice and properly dispose of the product in accordance with local laws and regulations. If you have any further questions regarding this product, please contact us for technical assistance at: http://www.cellsignal.com/support/index.html



SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

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### **SECTION 1. Identification**

#### Product identifier

Product number 7003

Product name 20X LumiGLO® Reagent

Other means of identification 7003L, 7003P, 7003P2, 7003P3, 7003S

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

**Identified uses**This product is intended for research purposes only.

**Uses advised against**This product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 United States

TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com support@cellsignal.com

Email address support@cells Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

## SECTION 2. Hazard(s) identification

#### Classification

Website

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

#### GHS Label elements, including precautionary statements



Signal Word Warning

#### Hazard statement(s)

Causes skin irritation
Causes serious eye irritation

#### Precautionary Statement(s)

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### **Supplementary Hazard Information**

Hazards not otherwise classified (HNOC) May accelerate skin absorption of other materials. Special attention needed when toxic materials are present in dimethyl sulfoxide because of enhanced skin absorption.

Unknown Acute Toxicity 80% of the mixture consists of ingredient(s) of unknown acute toxicity.

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

Chemical Name	CAS No	Weight %
dimethyl sulfoxide	67-68-5	<=20

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

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsina.

Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a Skin contact

> physician. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with

soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not

required. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing.

Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT Ingestion

induce vomiting. Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. If swallowed,

do not induce vomiting - seek medical advice.

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

No information available.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Advice for emergency responders

Immediate medical attention is not required. Show this safety data sheet to the doctor in **General advice** 

attendance. If symptoms persist, call a physician.

Protection of first-aiders Use personal protective equipment.

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

#### **Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

#### **Explosion Data**

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6. Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information No information available.

#### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

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# **SECTION 7. Handling and storage**

## Precautions for safe handling

Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Prevent the formation of vapors, mists and aerosols.

#### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** Keep container tightly closed. Keep out of the reach of children. Keep containers tightly

**conditions** closed in a cool, well-ventilated place. Keep in properly labeled containers.

Packaging material No information available.

**Incompatible products** Strong oxidizing agents, Acid chlorides, Acid anhydrides.

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

#### Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear protective gloves/clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

When using, do not eat, drink or smoke, Remove and wash contaminated clothing before Hygiene measures

re-use. Provide regular cleaning of equipment, work area and clothing.

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

#### Information on basic physical and chemical properties

Physical state Liquid **Appearance** Clear

Odor No information available

Color Light yellow

**Odor Threshold** No information available pН No information available No information available Melting point/freezing point Initial boiling point and boiling No information available

range

Flash point No information available. **Evaporation rate** No information available No information available Flammability (solid, gas) No information available. **Upper flammability limit** No information available. Lower flammability limit No information available Vapor pressure Vapor density No information available Relative density No information available No information available. Solubility No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available. No information available **Explosive properties** No information available Oxidizing properties **VOC** content No information available **Viscosity** No information available. No information available. **Density** 

## **SECTION 10. Stability and reactivity**

#### Reactivity

No information available.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

**Hazardous reactions** None under normal processing. Hazardous polymerization None under normal processing.

#### **Conditions to Avoid**

No information available.

#### **Incompatible Materials**

Strong oxidizing agents, Acid chlorides, Acid anhydrides.

## **Hazardous Decomposition Products**

None known based on information supplied. Thermal decomposition can lead to release of irritating gases and vapors: Carbon oxides (COx), Sulfur oxides.

# **SECTION 11. Toxicological information**

#### Information on likely routes of exposure

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact** Expected to be an irritant based on components.

**Skin contact** Expected to be an irritant based on components. Components of this product may be

absorbed into the body through the skin.

**Ingestion** May be harmful if swallowed.

### Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

Chemical	Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
dimethyl su	ılfoxide	14500 mg/kg ( Rat )	40000 mg/kg ( Rat )	-

**Unknown Acute Toxicity** 

80% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Symptoms** No information available.

Skin corrosion/irritation Irritating to skin. Serious eye damage/eye Irritating to eyes.

irritation

Sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identifiable

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.
No information available.

Other information May accelerate skin absorption of other materials. Special attention needed when toxic

materials are present in dimethyl sulfoxide because of enhanced skin absorption.

# **SECTION 12. Ecological information**

## **Ecotoxicity**

Product does not present an aquatic toxicity hazard based on known or supplied information.

L	Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	
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dimethyl sulfoxide

EC50 12350 - 25500 mg/L
(Skeletonema costatum) 96 h

(Skeletonema costatum) 96 h

(Oncorhynchus mykiss) 96 h LC50
34000 mg/L (Pimephales promelas)
96 h LC50 41.7 g/L (Cyprinus
carpio) 96 h

Persistence and degradability No produ

No product level data available.

Bioaccumulation

Some components of this material are unlikely to bioaccumulate but most have not been

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tested.

**Mobility** Will likely be mobile in the environment due to its water solubility

Chemical Name	Octanol-Water Partition Coefficient	
dimethyl sulfoxide	-2.03	

#### Other adverse effects

No information available.

# **SECTION 13. Disposal considerations**

## Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

#### **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way.

# **SECTION 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

# **SECTION 15. Regulatory information**

## **North American Inventory Listing**

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
dimethyl sulfoxide	Listed	Not Listed	Listed	Not Listed

#### Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

<b>(T)</b>	Class D2B - Toxic Material at >= 1%
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#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No

**Sudden Release of Pressure Hazard** No Reactive Hazard No

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

This product contains the following U.S. State Right to Know chemicals:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
dimethyl sulfoxide	Listed	Not Listed	Not Listed

#### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

## **US Commerce Department - Export Administration Regulations Information**

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

## U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

## **SECTION 16. Other information**

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**