

CellCiphr Cytotoxicity Assay, Human HepG2 cells Triton-X100 Solution

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION and of THE COMPANY/UNDERTAKING - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identification of the substance or preparation

Trade Name **CellCiphr Cytotoxicity Assay, Human HepG2 cells Triton-X100 Solution**

Catalogue Number: **2007514**

Chemical Name: Aqueous solution containing 0.5% Triton X-100.

Product Use: Liquid reagent used in cytotoxicity assay research

Other trade names and synonyms: Component in Millipore Product Number **CSB100**

Manufacturer/Distributor: **Millipore Corporation (Corporate Headquarters)** **Millipore S.A.S. (European Headquarters)**

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MSDS/SDS Number: **M118,006ae**

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SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	Symbol letters**	R-phrases***
Triton X-100 (p-tertiary-Octylphenoxy polyethyl alcohol)	Unlisted	9002-93-1	0.5	Xn	R22, R41, R52/53
Water	231-791-2	7732-18-5	99.5	none	none

Symbol letters and categories of danger: **T+=Very toxic, **T**=Toxic, **C**=Corrosive, **Xn**=Harmful, **Xi**=Irritant, **E**=Explosive, **O**=Oxidising, **F+**=Extremely flammable, **F**=Very flammable, **N**=Dangerous for the environment

*** The full text of the phrase is listed under heading 16.

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Clear, water white liquid

Classification: This product is classified as not dangerous according to Directive 1999/45/EC.

Adverse human health effects

Route of Entry

Potential Health Effects and Symptoms of Exposure

Eyes: Possible mild eye irritant

Ingestion Not expected to be a gastrointestinal irritant.

Inhalation Not expected to be an inhalation irritant. Inhalation of mists of this solution may cause minor nasal irritation.
Short Term and Long Term Exposure

Skin: Possible very mild skin irritant

Target Organs: Product: None
Triton X-100: Eyes

Medical conditions aggravated by exposure: None known

Adverse environmental effects: None expected

Adverse physicochemical effects: None expected

SECTION 4 - FIRST AID MEASURES

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, seek immediate medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting unless directed to do so by a health care provider.

Inhalation: If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin: In case of contact, wash skin with soap and copious amounts of water. If irritation or redness occurs, seek medical attention

SECTION 5 - FIRE FIGHTING MEASURES

Flash point and method Not considered to be a fire hazard.

Autoignition Temperature

Flammability Limits: Not applicable

Suitable extinguishing media: Select media appropriate for the surrounding fire.

Unsuitable extinguishing media: None reported.

Special protective equipment for fire fighters: None required

Special exposure hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions: Area evacuation is not required. Eliminate unnecessary traffic in area of the spill. Wear water resistant boots, clothing and gloves (nitrile, neoprene) to prevent skin contact.
- Small Spills: Clean up spills immediately. Wear appropriate protective clothing. Contain spill and absorb with sand, earth, inert material or vermiculite. Collect residues and place in labeled plastic containers.
- Large Spills: In addition to Small Spill precautions, clear area of all unnecessary personnel.
- Environmental precautions: Not expected to present any environment concerns at this concentration.
- Clean up measures: Small spills may be adsorbed on paper towels, and stored in closed containers pending final disposition. Larger spill may be absorbed in sand, sawdust or vermiculite, and stored in closed containers pending final disposition (See section 13). Wash spill area with detergent and water to remove residual contamination. This water may be disposed to the sanitary sewer.

SECTION 7- HANDLING AND STORAGE

Handling:

- Avoid contact with eyes and skin. Wear gloves.
- Do not inhale aerosols.
- Use personal protective equipment outlined in section 8.
- Wash thoroughly after handling

Storage

- Store tightly closed in original container in a cool, dry place.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Specific Protection	Normal Handling Conditions	Emergency Response Conditions
Respiratory protection	Not normally required for normal use.	If aerosols are present - air purifying respirator with organic cartridges
Ventilation	General room ventilation	If aerosols are present, provide exhaust ventilation
Eye protection	Safety glasses with side shields	Chemical splash goggles.
Skin protection	Nitrile gloves and laboratory coat.	Chemically resistant jacket, pants, gloves, boots and head covering

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, water white liquid
Odour:	None
Odour threshold:	No data have been found
pH (product):	8-9
Melting point:	Essentially that of water
Flash point:	Unknown; Not considered to be a fire hazard.
Explosive properties:	No considered to be an explosion hazard.
Oxidising properties:	Not considered to have oxidising properties.
Vapor pressure, 20 °C:	<1 mm Hg
Specific Gravity (Water = 1.0):	1.01
Water solubility 20 °C:	Soluble in water
Vapor Density	Essentially that of water
Viscosity	Not available
Partition coefficient: n-octanol/water	Not available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures
Conditions to avoid	Elevated temperature, heating to dryness.
Incompatible with:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide
Hazardous Polymerization	Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Dangerous to health effects and symptoms relating to:

Eye contact: May cause mild eye irritation.

Ingestion: Gastrointestinal irritation in not expected.

Inhalation: Inhalation of mists of this solution may cause minor nasal irritation.

Skin contact: May cause very mild skin irritation.

Carcinogenicity: None of the ingredients are listed as carcinogenic by ACGIH, IARC, NTP, OSHA or California proposition 65.

Chronic toxicity Chronic exposure to Triton-X-100 may cause sensitization dermatitis.

Toxicology Data

Selected RTECS data for components

Compound: p-tertiary-Octylphenoxy polyethyl alcohol	RTECS#: MD0907700, YM0616666, & YM0683332
Draize test, rabbit, eye: 10 uL/24H	Moderate
Draize test, rabbit, skin: 500 uL/24H	Mild
LC ₅₀ , oral, rat:	1,800-3,800 mg/kg
Polyethylene glycols have been investigated as mutagen, reproductive effectors and primary irritants.	

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: This product is expected to have very low ecotoxicity based upon the low toxicity of the pure Triton X100.

Environmental Fate: No information available.

SECTION 13- DISPOSAL INFORMATION

With the approval of the responsible authority, small quantities of this product may be disposed to an industrial sewer system.

European Union:

When disposal is required, this product be considered according to the European Waste catalogue (European commission decision of 03/05/01 modifying directives 94/3/CE and 75/442/CE) as part of the following category:

16 10 01* aqueous liquid wastes containing dangerous substances

United States:

The components of this product are not regulated by USEPA RCRA regulations as hazardous wastes

SECTION 14 - TRANSPORTATION INFORMATION

The transportation of this product is not regulated by IMDG (sea), ADR (road), RID (rail), ICAO/IATA (air), or USDOT as a dangerous goods or hazardous material.

SECTION 15 - REGULATORY INFORMATION

Canada:

This product has WHMIS classifications of **Not Classified**

European Community:

Label health, safety and environmental information (Directives: 67/548/EEC and 1999/45/EC)

Symbols:	None Required
Category of danger	None Required
Risk phrases:	None Required
Safety Phrases	None Required

Japan:

None of the components of this product are listed in the Poisonous and Deleterious Substances Control Law

United States

Toxic Substances Control Act: All components of these products are listed on the EPA Toxic Substances Control Act (TSCA) Inventory

Occupational Exposure Limits

p-tertiary-Octylphenoxy polyethyl alcohol	Exposure limit
European Community WEL	None established
US OSHA PEL	None established
ACGIH: TLV	None established
NIOSH REL:	None established

SECTION 16- ADDITIONAL INFORMATION

Risk phrases referred to under Section 2:

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations used:

ACGIH	American Conference of Government Industrial Hygienists
ADR	European agreement on the international carriage of dangerous goods on road
C	Ceiling exposure value
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	United States Environmental Protection Agency
IARC	International Agency for Research in Cancer.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization.
LC ₅₀	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD ₅₀	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
MAK	Maximum Concentration Values in the Workplace (Austria, Germany, Switzerland)
NIOSH	National Institute of Occupational Health & Safety (US)
OSHA	United States Occupational Safety and Health Administration
REL	Recommended exposure limit (NIOSH)
RID	International regulations concerning the international carriage of dangerous goods by rail.
RTECS	Registry of Toxic Effects of Chemical Substances (US)
STEL	Short term exposure limit (15 minute)
TGV	15 minute short term exposure limit (Sweden)
TLV	Threshold Limit Value
VLE	15 minute short term exposure limit (France)
WEL	European Community Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System (Canada)

This safety data sheet is compliant with the requirements of EC Directive 2001/58/EC and ANSI Z400.1-1998.

The physical, chemical and toxicological properties of this product have not been thoroughly investigated.

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