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Version: 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name CellRescue Preservative Tubes
9601 / 9602

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Assay Reagent.

Uses advised against Not available

1.3. Details of the supplier of the safety data sheet

Company: Menarini Silicon Biosystems, Inc.
3401 Masons Mill Rd #100
Huntingdon Valley, PA 19006 USA

For further information, please contact: 1 (800) 381-4929

Email: Us-info@siliconbiosystems.com

1.4. Emergency telephone number

Emergency Telephone Within USA and Canada: (303) 389-1805
Outside USA and Canada: +1 (303) 389-1805

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 2 - (H341)

2.2. Label elements



Signal word
Warning

Hazard statements

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P362 + P364 - Take off contaminated clothing and wash it before reuse
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P321 - Specific treatment (section 4.1 for more information)
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
 P405 - Store locked up
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

2.3. Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Polyethylene glycol 25322-68-3	0.1833	-	-	-	-	-	-
Trade Secret	< 5	-	-	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Muta. 2 (H341)	-	-	-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation In case of inhalation. Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Seek medical attention immediately.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if worn. Get medical attention if symptoms occur.

Skin contact In case of contact. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

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

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not flush into surface water or sanitary sewer system. See section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Methods for containment Large Spill: Soak up with inert absorbent material. Keep in properly labeled containers. Small Spill: Gently cover the spill with an absorbent towel or pad.

Methods for cleaning up Keep in suitable, closed containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of the product. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling and before eating or drinking. Wash clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Store contents under 4-30 °C. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep only in the original container. Keep locked up and out of reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Polyethylene glycol 25322-68-3	-	STEL 4000 mg/m ³ TWA: 1000 mg/m ³	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Polyethylene glycol 25322-68-3	-	-	TWA: 1000 mg/m ³	-	-
Trade Secret	-	-	Ceiling: 0.2 ppm Ceiling: 0.5 mg/m ³	-	TWA: 0.02 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Polyethylene glycol 25322-68-3	-	-	TWA: 250 mg/m ³ Ceiling / Peak: 500 mg/m ³ TWA: 200 mg/m ³ TWA: 1000 mg/m ³	-	-
Trade Secret	-	-	Skin	-	-
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Trade Secret	STEL: 0.3 mg/m ³	-	-	-	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Polyethylene glycol 25322-68-3	-	-	TWA: 1000 mg/m ³	TWA: 1000 mg/m ³ STEL: STEL mg/m ³	-
Trade Secret	TWA: 0.1 mg/m ³	-	-	-	TWA: 0.1 mg/m ³
Chemical name	Sweden		Switzerland	United Kingdom	
Polyethylene glycol 25322-68-3	-		TWA: 1000 mg/m ³	-	

Biological occupational exposure limits

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

Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection None required for consumer use. Safety glasses with side shields are recommended for medical or industrial exposures.
Skin and body protection None required for consumer use. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.
Respiratory protection None under normal use conditions. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls Store in a closed container. Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Color Not available
Odor Not available.
Odor Threshold Not available

<u>Property</u>	<u>Values</u>
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	
pH	7.0
pH (as aqueous solution)	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Vapor pressure	No data available
Relative density	No data available
Bulk density	No data available
Density	1.01 gm/ml.
Vapor density	No data available

Particle characteristics

Particle Size	No information available
Particle Size Distribution	No information available

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity****Reactivity** Not available.**Remarks** Not available.**10.2. Chemical stability****Stability** Stable under recommended storage conditions.**Explosion data****Sensitivity to mechanical impact** Not available.**Sensitivity to static discharge** Not available.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** None under normal product use.**10.4. Conditions to avoid****Conditions to avoid** Extremes of temperature and direct sunlight.**10.5. Incompatible materials****Incompatible materials** Not available.**10.6. Hazardous decomposition products****Hazardous Decomposition Products** Not available.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	May cause sensitization by inhalation.
Eye contact	Contact with eyes may cause irritation.
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Ingestion is not a likely route of exposure. Accidental ingestion may be harmful to the central nervous system.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Moderately irritating to the skin (Trade secret).

Numerical measures of toxicity

No information available

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 6,547.10 mg/kg
ATEmix (inhalation-dust/mist) 49.10 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene glycol	= 22 g/kg (Rat)	> 20 g/kg (Rabbit)	-
Trade Secret	= 200 mg/kg (Rat)	= 12700 mg/kg (Rabbit)	= 2.44 mg/L (Rat) 4 h

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

Skin corrosion/irritation Not available.
Serious eye damage/eye irritation May cause eye irritation (Trade secret).
Respiratory or skin sensitization Skin sensitizer in guinea pig (Trade secret).
Germ cell mutagenicity Animal experiments showed mutagenic and teratogenic effects (Trade secret).
Carcinogenicity Not likely to be carcinogenic to humans.
Reproductive toxicity No information available.
STOT - single exposure No known effects under normal use conditions.
STOT - repeated exposure No known effects under normal use conditions.
Aspiration hazard Not applicable.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Polyethylene glycol 25322-68-3	-	5000: 24 h Carassius auratus mg/L LC50	-	
Trade Secret	348.59: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 500: 72 h Desmodesmus subspicatus mg/L EC50 500: 96 h Desmodesmus subspicatus mg/L EC50	215: 96 h Pimephales promelas mg/L LC50 static	-	404: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE.

Chemical name	Partition coefficient
Trade Secret	-0.85

12.4. Mobility in soil

Mobility in soil After release, adsorbs onto soil.

Mobility This product contains a trade secret chemical, which is expected to have very high mobility in soil.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Not available.

12.6. Endocrine disrupting properties

Endocrine disrupting properties Not available.

12.7. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container.

Waste codes / waste designations according to EWC / AVV Not available.

SECTION 14: TRANSPORT INFORMATION

IATA

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None known

IMDG

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated.
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None known
14.7 Maritime transport in bulk according to IMO instruments	Not available

RID

14.1 UN/ID No.	Not regulated.
14.2 Proper Shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated.
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None known

ADR

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated.
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None known

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Occupational Illnesses (R-463-3, France)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment**Chemical Safety Report**

Not available

SECTION 16: OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H341 - Suspected of causing genetic defects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

CellRescue Preservative Tubes

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Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Version	Issue Date	Reason for revision
1	29-Oct 2020	-
2	22-Jan 2021	New EU SDS format

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**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 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**EU SDS version information - EGHS**

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