SAFETY DATA SHEET



CELL LYSIS BUFFER

Section 1. Identification

Product identifier : CELL LYSIS BUFFER

Other means of identification

: Not available.

Product type : Liquid.

Product part number : R7081/R7097

Kit name : CATCHPOINT cAMP KIT, EXPLORER, 384-WELL FORMAT

CATCHPOINT cAMP EXPLORER KIT, 96-WELL FORMAT CATCHPOINT cGMP KIT, EXPLORER, 384-WELL FORMAT CATCHPOINT cGMP EXPLORER KIT, 96-WELL FORMAT CATCHPOINT cAMP KIT, BULK, 384-WELL FORMAT CATCHPOINT cAMP BULK KIT, 96-WELL FORMAT CATCHPOINT cGMP KIT, BULK, 384-WELL FORMAT CATCHPOINT cGMP BULK KIT, 96-WELL FORMAT

Kit part number : R8044/R8088/R8065/R8074/R8053/R8089/R8066/R8075

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

Product use : For R&D use only.

Area of application : Professional applications.

Manufacturer : MOLECULAR DEVICES, LLC

3860 N First Street San Jose, CA 95134

USA

e-mail address of person responsible for this SDS

: msdsinquiry@moldev.com

Emergency telephone number (with hours of

: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)

operation)

Section 2. Hazard identification

Classification of the substance or mixture

: F317 SKIN SENSITIZATION - Category 1A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : ▶317 - May cause an allergic skin reaction.

Precautionary statements

Prevention : P280 - Wear protective gloves.

P261 - Avoid breathing vapor.

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 1/11

CELL LYSIS BUFFER

identification

Eye contact

Inhalation

Skin contact

Ingestion

Section 2. Hazard identification

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

Disposal : ₱501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.

Ingredient name	Other names	% (w/w)	CAS number
Foly(oxy-1,2-ethanediyl), α- [4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	-	1 - 5	9002-93-1
3(2H)-Isothiazolone, 2-methyl-	-	<0.1	2682-20-4

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

escription of necessary mist aid measures

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Remove victim to fresh air and keep at rest in a po

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not

induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 2/11

Section 4. First-aid measures

as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Inhalation

Skin contact : May cause an allergic skin reaction.

: No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

: No specific data. **Eye contact** Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

: No specific treatment. Specific treatments

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Do not use water jet.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

: Use an extinguishing agent suitable for the surrounding fire.

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Date of issue/Date of revision : 14/03/2018 Version 3/11 : 29/01/2021 Date of previous issue

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 4/11

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : Cear.

Odor : Not available.
Odor threshold : Not available.
pH : 5.5 to 5.7

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 5/11

Canada

Section 9. Physical and chemical properties

Melting point: Not available.Boiling point: Not available.Flash point: Not applicable.Evaporation rate: Not available.Flammability (solid, gas): Not applicable.Lower and upper explosive: Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.
 Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
3(2H)-Isothiazolone, 2-methyl-	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.11 mg/l	4 hours
,	LD50 Dermal	Rat - Male,	242 mg/kg	-
	LD50 Oral	Female Rat - Male, Female	285.5 mg/kg	-

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 6/11

Section 11. Toxicological information

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	<i>3</i>	Rabbit		24 hours 10 uL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Sensitization

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	3 3 3	Route of exposure	Target organs
Foly(oxy-1,2-ethanediyl), α- [4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 7/11

Section 11. Toxicological information

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Kaverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Ønce sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Reproductive toxicity
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ELL LYSIS BUFFER	90000	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), α-	1800	N/A	N/A	N/A	N/A
[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	205 5	040	NI/A	NI/A	0.44
3(2H)-Isothiazolone, 2-methyl-	285.5	242	N/A	N/A	0.11

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Foly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
3(2H)-Isothiazolone, 2-methyl-	Acute LC50 4500 μg/l Fresh water Acute EC50 0.18 ppm Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 48 hours

Date of issue/Date of revision : 29/01/2021 Date of previous issue : 14/03/2018 Version : 2 8/11

CELL LYSIS BUFFER

Section 12. Ecological information

Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Chronic NOEC 0.044 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Chronic NOEC 2.38 mg/l Fresh water	Fish - Pimephales promelas	98 days

Conclusion/Summary

: Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3(2H)-Isothiazolone, 2-methyl-	OECD 301D Ready Biodegradability - Closed Bottle Test	0 % - Not readily - 28 days	-	Activated sludge

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
(2H)-Isothiazolone, 2-methyl-	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
(2H)-Isothiazolone, 2-methyl-	0.119	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: octylphenol and its ethoxylates

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

Date of issue/Date of

revision

: 29/01/2021

Date of previous issue : 14/03/2018

Version : 2

Prepared by : Sphera Solutions

Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

Classification	Justification
KIN SENSITIZATION - Category 1A	Calculation method

References : HPR = Hazardous Products Regulations

▼ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.