SAFETY DATA SHEET



STOPLIGHT RED SUBSTRATE BUFFER

Section 1. Identification

Product identifier	: STOPLIGHT RED SUBSTRATE BUFFER
Other means of identification	: Not available.
Product type	: Liquid.
Product part number	: R7084/R7100
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 t	he 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 operation)	: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)

Section 2. Hazard identification

Classification of the substance or mixture	: ⊮ 317	SKIN SENSITIZATION - Category 1A
GHS label elements		
Hazard pictograms	: 🔽 🔨	
Signal word Hazard statements	: Warning	se an allergic skin reaction.
Precautionary statements		se an allergic skin reaction.
Prevention	: P280 - Wear pro P261 - Avoid bre	

: 14/03/2018

Version : 2

1/11

: 16/12/2020 Date of previous issue

Date of issue/Date of revision

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	 P501 - 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.
identification	

Ingredient name	Other names	% (w/w)	CAS number
(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

Eye contact	: 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.
Inhalation	: 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.
Skin contact	: 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.
Ingestion	: 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 as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Date of issue/Date of revision	: 16/12/2020	Date of previous issue	: 14/03/2018	Version	:2	2/11
--------------------------------	--------------	------------------------	--------------	---------	----	------

Section 4. First-aid measures

Potential acute health effe	<u>ets</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical 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.
Specific treatments	: No specific treatment.
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	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
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	: No specific data.
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.

3/11

Section 6. Accidental release measures

Personal precautions, protec	tive 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 co	ntainment 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, sincluding 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	: 16/12/2020	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 measure	<u>es</u>		
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

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Clear.	
Odor	: Not available.	
Odor threshold	: Not available.	
рН	: 7.4 to 7.6	
Date of issue/Date of revision	: 16/12/2020 Date of previous issue : 14/03/2018	Version : 2 5/11

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 (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Fasily 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 ingredie	ents.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occu Under normal conditions of storage and use, hazardous polymerization will not occur.	
Conditions to avoid	No specific data.	
Incompatible materials	No specific data.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition produc should not be produced.	xts

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3(2H)-Isothiazolone, 2-methyl-	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.11 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	242 mg/kg	-
	LD50 Oral	Rat - Male, Female	285.5 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Date of issue/Date of revision	: 16/12/2020	Date of previous issue	: 14/03/2018	Version	:2	6/11

Section 11. Toxicological information

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 toxicit	<u>ty (single exposure)</u>
Not available.	
Aspiration hazard Not available.	
nformation on the likely outes of exposure	: R outes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>S</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
	 No known significant effects or critical hazards. May cause an allergic skin reaction.
Inhalation	
Inhalation Skin contact Ingestion	: May cause an allergic skin reaction.
Inhalation Skin contact Ingestion	 May cause an allergic skin reaction. No known significant effects or critical hazards.
Inhalation Skin contact Ingestion Symptoms related to the phy	 May cause an allergic skin reaction. No known significant effects or critical hazards.
Inhalation Skin contact Ingestion Symptoms related to the phy Eye contact	 May cause an allergic skin reaction. No known significant effects or critical hazards. ysical, chemical and toxicological characteristics No specific data.
Inhalation Skin contact Ingestion <u>Symptoms related to the phy</u> Eye contact Inhalation	 May cause an allergic skin reaction. No known significant effects or critical hazards. ysical, chemical and toxicological characteristics No specific data. No specific data. Adverse symptoms may include the following: irritation
Inhalation Skin contact Ingestion Symptoms related to the phy Eye contact Inhalation Skin contact Ingestion	 May cause an allergic skin reaction. No known significant effects or critical hazards. ysical, chemical and toxicological characteristics No specific data. No specific data. Adverse symptoms may include the following: irritation redness
Inhalation Skin contact Ingestion Symptoms related to the phy Eye contact Inhalation Skin contact Ingestion	 May cause an allergic skin reaction. No known significant effects or critical hazards. ysical, chemical and toxicological characteristics No specific data. No specific data. Adverse symptoms may include the following: irritation redness No specific data.
Inhalation Skin contact Ingestion Symptoms related to the phy Eye contact Inhalation Skin contact Ingestion	 May cause an allergic skin reaction. No known significant effects or critical hazards. ysical, chemical and toxicological characteristics No specific data. No specific data. Adverse symptoms may include the following: irritation redness No specific data.

Version : 2

7/11

Canada

Section 11. Toxicological information

Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
General	:	Since sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/l)
(2H)-Isothiazolone, 2-methyl-	285.5	242	N/A	N/A	0.11

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
3(2H)-Isothiazolone, 2-methyl-	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water Chronic NOEC 0.044 mg/l Fresh water Chronic NOEC 2.38 mg/l Fresh water	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna Fish - Pimephales promelas	96 hours 21 days 98 days

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
₿(2H)-Isothiazolone, 2-methyl-	OECD 301D Ready Biodegradability - Closed Bottle Test	0 % - Not readily - 2	8 days	-	Activated sludge
Conclusion/Summary	: Not available.				
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability

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

Bioaccumulative potential

Date of issue/Date of revision : 16/12/2020 Date of previous issue : 14/03/2018 Version : 2	Date of issue/Date of revision	: 16/12/2020 Date of previous issue : 14/03/2018	Version : 2	8/11
---	--------------------------------	--	-------------	------

Section 12. Ecological information

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

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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 nonrecyclable 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	ΙΑΤΑ
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

: 16/12/2020 Date of previous issue : 14/03/2018

9/11

Section 15. Regulatory information

Canadian lists			
Canadian NPRI	: None of the components are listed.		
CEPA Toxic substances	: None of the components are listed.		
Canada inventory	 At least one component is not listed in DSL but all such components are listed in NDSL. 		
International regulations			
Chemical Weapon Conver	ntion 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

matory	
Date of issue/Date of revision	: 16/12/2020
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 = Internediate 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	

V Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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.

Date of issue/Date of revision