# **SAFETY DATA SHEET**



### Calibeads

Section 1. Identification		
Product identifier	: Calibeads	
Other means of identification	: Not available.	
Product type	: Liquid.	
Product part number	: 🔀 8150 / K8521 / K8520 / K8530	
Kit part number	: 🔀 8150 / K8500SK / K8520SK / K8530SK	
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 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	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

# Section 3. Composition/information on ingredients

#### Substance/mixture

Other means of identification

- : Mixture
- : Not available.

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 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. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: ₩ash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate	e 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.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

#### 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	: Decomposition products may include the following materials: 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# 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. 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	nta	ainment 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. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
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 between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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.

# Section 8. Exposure controls/personal protection

Control parameters				
Occupational exposure limi	<u>ts</u>			
None.				
			<i>.</i>	
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exp contaminants.	osure to airbo	rne
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be on hey comply with the requirements of environmental protection leg cases, fume scrubbers, filters or engineering modifications to the p will be necessary to reduce emissions to acceptable levels.	islation. In sor	me
Individual protection measur	<u>'es</u>			
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemica eating, smoking and using the lavatory and at the end of the worki Appropriate techniques should be used to remove potentially conta Wash contaminated clothing before reusing. Ensure that eyewash safety showers are close to the workstation location.	ng period. aminated cloth	
Eye/face protection	:	Safety eyewear complying with an approved standard should be u assessment indicates this is necessary to avoid exposure to liquid gases or dusts. If contact is possible, the following protection sho he assessment indicates a higher degree of protection: safety gla shields.	splashes, mis uld be worn, u	sts, nless
Skin protection				
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved be worn at all times when handling chemical products if a risk asso his is necessary.		
Body protection	:	Personal protective equipment for the body should be selected babe being performed and the risks involved and should be approved by before handling this product.		k
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# Section 8. Exposure controls/personal protection

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

Physical state:Liquid. [Transparent / Viscous + Polystyrene solid.]Color:Not available.Odor:Not available.Odor threshold:Not available.pH:Not available.Boiling point:100°C (212°F)Flash point:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Vapor pressure:Not available.Vapor density:Not available.Solubility:Soluble in the following materials: cold water and hot water.Partition coefficient: n- octanol/water:Not available.Decomposition temperature:Not available.Decomposition temperature:Not available.Viscosity:Not available.Flow time (ISO 2431):Not available.	<u>Appearance</u>	
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Decomposition temperature: Not available.Viscosity: Not available.		: Not applicable.
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-	Decomposition temperature	: Not available.
Flow time (ISO 2431)       : Not available.	Viscosity	: Not available.
	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	:	Sensitive to light.

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# Section 10. Stability and reactivity

Incompatible materials

: No specific data.

Hazardous decomposition<br/>products: Under normal conditions of storage and use, hazardous decomposition products<br/>should not be produced.

### Section 11. Toxicological information

Information on toxicological e	effe	ects
Acute toxicity		
<b>Conclusion/Summary</b>	;	Not available.
Irritation/Corrosion		
Conclusion/Summary		
Skin	;	Not available.
Eyes	1	Not available.
Respiratory	1	Not available.
Sensitization		
Conclusion/Summary		
Skin	;	Not available.
Respiratory	1	Not available.
Mutagenicity		
<b>Conclusion/Summary</b>	1	Not available.
<b>Carcinogenicity</b>		
<b>Conclusion/Summary</b>	:	Not available.
Reproductive toxicity		
<b>Conclusion/Summary</b>	:	Not available.
Teratogenicity		
<b>Conclusion/Summary</b>	1	Not available.
Specific target organ toxicity	(	<u>single exposure)</u>
Not available.		
Specific target organ toxicity	/ (I	repeated exposure)
Not available.		
Aspiration hazard		
Not available.		
Not available.		
Information on the likely		Not available.
routes of exposure	ľ	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Indestion		No known significant effects or critical bazards

Ingestion : No known significant effects or critical hazards.

# Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics
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Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

<u>Short term exposure</u>				
Potential immediate effects	:	Not available.		
Potential delayed effects	:	Not available.		
<u>Long term exposure</u>				
Potential immediate effects	:	Not available.		
Potential delayed effects	:	Not available.		
Potential chronic health effects				
General	:	No known significant effects or critical hazards.		
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

N/A

# Section 12. Ecological information

### Toxicity

**Conclusion/Summary** : Not available.

Persistence and degradability Conclusion/Summary	:	Not available.
Bioaccumulative potential Not available.		
Mobility in soil Soil/water partition coefficient (Koc)	:	Not available.
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### Section 12. Ecological information

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. 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

### Section 15. Regulatory information

<u>Canadian lists</u>				
Canadian NPRI	: None of the components are listed.			
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.				

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# Section 15. Regulatory information

#### 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

<u>History</u>	
Date of issue/Date of revision	: 13/05/2021
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Version	: 2
Prepared by	: Sphera Solutions
Key to abbreviations	<ul> <li>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 = International Air Transport Association IBC = 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</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### 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 above-named 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.