# SAFETY DATA SHEET

**EpicIF Solution** 



# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: EpicIF Solution
Product code	: Not applicable
Product type	: Liquid.
Other means of identification	: Not available.

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

: EpicIF Solution is used with light to remove fluorescence signals.

Area of application : Professional applications.

Uses advised against	Reason
This product is not intended for use in humans or animals.	-

#### 1.3 Details of the supplier of the safety data sheet

Bruker Spatial Biology, Inc. 4340 Duncan Avenue, Suite 220 Saint Louis, Missouri 63110 United States e-mail address of person : Info.canopy@bruker.com responsible for this SDS

#### 1.4 Emergency telephone number

#### <u>Supplier</u>

Product use

Telephone number : +1 866-963-4342 (US) or+49 6221-1873170 (EMEA/HDL) | 24/7

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown	: 1.2 percent of the mixture consists of component(s) of unknown acute inhalation
toxicity	toxicity

See Section 11 for more detailed information on health effects and symptoms.

2.2	Labe	e	ements

2.2 Laber elements						
Signal word	: No signal w	ord.				
Hazard statements	: No known s	ignificant effects or critic	al hazards.			
Precautionary statements						
Prevention	: Not applicat	ble.				
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# **SECTION 2: Hazards identification**

Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Contains Component A. May produce an allergic reaction. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : I	Vixture			
Product/ingredient name	Identifiers	%	Classification	Туре
Component B	-	≤3	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

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

# **SECTION 4: First aid measures**

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

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

### **Over-exposure signs/symptoms**

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides</li> <li>Thermal decomposition can lead to release of irritating and toxic gases and vapors.</li> </ul>
5.3 Advice for firefighters 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.
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# **SECTION 5: Firefighting measures**

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## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. For emergency responders : If specialised 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". 6.2 Environmental : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental precautions pollution (sewers, waterways, soil or air). 6.3 Methods and material 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. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. 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.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

#### 7.1 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.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep container tightly closed and store at recommended temperature. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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# **SECTION 7: Handling and storage**

#### 7.3 Specific end use(s)

Recommendations Industrial sector specific

- : Not available.
- Industrial sector specific : Not available. solutions

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

## Occupational exposure limits

No exposure limit value known.

### **Biological exposure indices**

None known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres -Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Component B	DNEL	Long term Inhalation Long term Inhalation	3.04 mg/m <sup>3</sup> 4.07 mg/m <sup>3</sup>	population	Systemic Systemic

### **PNECs**

No PNECs available

### **8.2 Exposure controls**

0.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</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. 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	:

## **SECTION 8: Exposure controls/personal 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.
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.
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.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

Appearance			
Physical state	:	Liquid.	
Colour	:	Clear.	
Odour	:	Odourless.	
Odour threshold	:	Not available.	
Melting point/freezing point	1	Not available.	
Initial boiling point and boiling range	:	Not available.	
Flammability (solid, gas)	:	Not available.	
Upper/lower flammability or explosive limits	:	Not available.	
Flash point	:	Not available.	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	4	Not available.	
рН	4	Not available.	
Viscosity	:	Dynamic (room temperat Kinematic (room tempera Kinematic (40°C): Not av	ature): Not available.
Solubility(ies)	:	Media	Result
		water	Easily soluble
Partition coefficient: n-octanol/ water	:	Not applicable.	•
Vapour pressure	:		

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# **SECTION 9: Physical and chemical properties**

		Vapour Pressure at 20°C			Vapour pressure at 50°		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Water	17.5	2.3		92.258	12.3	
Relative density	: Not available.		I	<b>_</b>			
Vapour density	: Not available.						
Explosive properties	: Not available.						
Oxidising properties	: Not available.						
Particle characteristics							
Median particle size	: Not applicable.						
9.2 Other information							
Physical/chemical properties comments	: No additional inform	nation.					

10.1 Reactivity	1	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials.
10 6 Hazardous		Under normal conditions of storage and use bazardous decomposition products

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

# **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Component B	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	17000 mg/kg	-
Conclusion/Summary	Not available.			

Acute toxicity estimates

Product/ingre	Oral (mg kg)	/ Dermal (mg/kg)	Inhalation (gases) (ppm)		Inhalatio (vapours (mg/l)		
Component B	17000	N/A			N/A	(mg/l)	
		17000		11/7		11/7	
Irritation/Corrosion	Desett		0	0	-		0
Product/ingredient name	Result		Species	Score		posure	Observation
Component B	Eyes - Mild irritant		Rabbit	-	24 r mg	ours 500	-
	Skin - Mild irritant	I	Rabbit	-		ours 500	-
Conclusion/Summary	: Not available.						
<u>Respiratory or skin sensitiz</u>	<u>ation</u>						
Conclusion/Summary	: Not available.						
<u>Mutagenicity</u>							
Conclusion/Summary	: Not available.						
Carcinogenicity	<b>NI</b> ( 111						
Conclusion/Summary	: Not available.						
<u>Reproductive toxicity</u> Conclusion/Summary	: Not available.						
Teratogenicity	. NOL AVAIIADIE.						
Conclusion/Summary	: Not available.						
Specific target organ toxicit							
Not available.							
Specific target organ toxicit	ty (ropostod oxposuro)						
Not available.	ty (repeated exposure)						
Aspiration hazard Not available.							
nformation on likely routes	: Routes of entry antic	cipated: Ora	l, Dermal, Inh	alation, E	Eyes.		
f exposure							
otential acute health effects	-						
Eye contact	: No known significan						
Inhalation	: No known significan						
Skin contact	: No known significan						
Ingestion	: No known significan			5.			
symptoms related to the phy	sical, chemical and to	xicological	<u>characterist</u>	<u>cs</u>			
Eye contact	: No specific data.						
Inhalation	: No specific data.						
initialation							
Skin contact	No specific data.						

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# **SECTION 11: Toxicological information**

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
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.

## Other information

: Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
component B	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 3580000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 >100 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute NOEC >100 mg/l Fresh water Acute NOEC 100 mg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Component B	-5.8	-	Low

### **12.4 Mobility in soil**

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

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# **SECTION 12: Ecological information**

**Mobility** 

: Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects	: No known significant effects or critical hazards.
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## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods Product	
	The generation of waste should be avoided or minimised 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.
Hazardous waste	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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.

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# **SECTION 14: Transport information**

14.7 Transport in bulk : Not available. according to IMO instruments

## **SECTION 15: Regulatory information**

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

## UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

## Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.

**Ozone depleting substances** 

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

Persistent Organic Pollutants Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### **EU regulations**

 Industrial emissions
 : Not listed

 (integrated pollution

 prevention and control) 

 Air

 Industrial emissions
 : Not listed

 (integrated pollution

 prevention and control) 

 Water

 International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

## Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

# **SECTION 15: Regulatory information**

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	This product contains substances for which Chemical Safety Assessments are still
assessment	required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification

Not classified.

#### Full text of abbreviated H statements

H319	Causes serious eye irritation.
Full text of classifications	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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#### 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.