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Revision: 10/11/2013 Supersedes Revision: 03/18/2013

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



### Section 1. Identification of the Substance/Mixture and of the

**1.1 Product Code:** 600503

**Product Name:** TR-FRET Assay Buffer (10X)

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

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification			
GHS Classification Placard Key word GHS hazard phrase			
Acute Toxicity: Oral, Category 5	none	Warning	May be harmful if swallowed
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation
Serious Eye Damage/Eye Irritation, Category 2	Exclamation point	Warning	Causes serious eye irritation
Skin Sensitization, Category 1	Exclamation point	Warning	May cause an allergic skin reaction

GHS Hazard Phrases: H303: May be harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P362+364: Take off contaminated clothing and wash it before reuse.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P272: Contaminated work clothing should not be allowed out of the workplace.

GHS Response Phrases: P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and

Symptoms:

Causes skin irritation.

Causes serious eye irritation.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause an allergic skin reaction. May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



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Target Organs:No data available.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3.	Composition/	Information on	Ingredients
			9

	ı				
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS#
HEPES, free acid	7365-45-9	10.0 -20.0 %	230-907-9	R43-36/37/38	TL6809000
2. Sodium chloride	7647-14-5	0.0 -5.0 %	231-598-3	R36	VZ4725000
3. TR-FRET Assay Buffer	NA	0.0 -5.0 %	NA	R36-43	NA
4. Water	7732-18-5	70.0 -90.0 %	231-791-2	No phrases apply.	ZC0110000

### Section 4. First Aid Measures

4.1 Description of First Aid Measures:

**4.1.1** In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

**4.1.2** In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**4.1.3** In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

**4.1.4 In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

No data available.

4.3 Indication of any immediate medical

attention and special treatment needed:

No data available.

# Section 5. Fire Fighting Measures

**5.1 Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

**5.2** Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

### Section 6. Accidental Release Measures

**6.1 Protective Precautions, Protective** Avoid breathing vapors and provide adequate ventilation.

Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.



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# Section 7. Handling and Storage

**7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection				
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits
1. HEPES, free acid	7365-45-9	No data.	No data.	No data.
2. Sodium chloride	7647-14-5	No data.	No data.	No data.
3. TR-FRET Assay Buffer	NA	No data.	No data.	No data.
4. Water	7732-18-5	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe
1. HEPES, free acid	7365-45-9	No data.	No data.	No data.
2. Sodium chloride	7647-14-5	No data.	No data.	No data.
TR-FRET Assay Buffer	NA	No data.	No data.	No data.
4. Water	7732-18-5	No data.	No data.	No data.
	-		•	•

Protective Equipment Summary - Hazard

**Label Information:** 

Compatible chemical-resistant gloves Eye wash

Eye wash station in work area Lab coat Safety

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

**8.2.2.1 Eye Protection:** Safety glasses

**8.2.2.2 Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

8.2.3 Environmental Exposure Controls: No data available.

9.1 Information on Basic Physical and	I Chemical Properties	
Physical States:	[ ] Gas [ X ] Liquid [ ] Solid	
Appearance and Odor:	Solution	
pH:	8.0	
Melting Point:	No data.	
Boiling Point:	No data.	
Flash Pt:	No data.	
Evaporation Rate:	No data.	
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Specific Gravity (Water = 1):	No data.	



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Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

Percent Volatile: No data.

# Section 10. Stability and Reactivity

**10.1 Reactivity:**No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

**10.3 Stability Note(s):** Stable if stored in accordance with information listed on the product insert.

**10.4 Conditions To Avoid:** No data available.

**10.3 Polymerization:** Will occur [ X ]

10.5 Incompatibility - Materials To Avoid: No data available.
 10.6 Hazardous Decomposition Or No data available.

**Byproducts:** 

# Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1. HEPES, free acid	7365-45-9	n.a.	n.a.	n.a.	n.a.
2. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.
3. TR-FRET Assay Buffer	NA	n.a.	n.a.	n.a.	n.a.
4. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

# Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

# Section 13. Disposal Considerations

**13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name**Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

**European Community Risk and Safety Phrases** 



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R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### **US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. HEPES, free acid	7365-45-9	No	No	No	No
2. Sodium chloride	7647-14-5	No	No	No	No
3. TR-FRET Assay Buffer	NA	No	No	No	No
4. Water	7732-18-5	No	No	No	No

### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. HEPES, free acid	7365-45-9	No	No	Inventory	No
2. Sodium chloride	7647-14-5	No	No	Inventory	No
3. TR-FRET Assay Buffer	NA	No	No	No	No
4. Water	7732-18-5	No	No	Inventory	No

**Regulatory Information Statement:** 

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

### Section 16. Other Information

**Revision Date:** 10/11/2013

### **Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



# SAFETY DATA SHEET **TR-FRET Assay Buffer Additive**

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Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



# Section 1. Identification of the Substance/Mixture and of the

**Product Code:** 600504

**Product Name:** TR-FRET Assay Buffer Additive

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

Relevant identified uses: For research use only, not for human or veterinary use.

Details of the Supplier of the Safety Data Sheet

**Company Name:** Cayman Chemical Company

**Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300

**Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2.	Hazards	Identı	ıtıcatıc	n
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GHS Classification	Placard	Key word	GHS hazard phrase
Acute Toxicity: Oral, Category 4	Exclamation	Warning	Harmful if swallowed
	point		

**GHS Hazard Phrases:** H302: Harmful if swallowed.

**GHS Precaution Phrases:** P264: Wash {hands} thoroughly after handling.

**GHS Response Phrases:** P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

**Adverse Human Health Effects and** 

Harmful if swallowed.

Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.

> May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation.

**Target Organs:** No data available. Medical Conditions Generally Aggravated By No data available.

**Exposure:** 

# Section 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases
TR-FRET Assay Buffer Additive	NA	100.0 %	NA	R22

### Section 4. First Aid Measures

4.1 **Description of First Aid Measures:** 

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.



# **SAFETY DATA SHEET TR-FRET Assay Buffer Additive**

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4.1.4 In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

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

No data available.

## Section 5. Fire Fighting Measures

**5.1 Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

**5.2** Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

## Section 6. Accidental Release Measures

**6.1 Protective Precautions, Protective** Avoid raising and breathing dust, and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

# Section 7. Handling and Storage

7.1 **Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

**7.2** Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Other Precautions: Light sensitive.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

#### Section 8. **Exposure Controls/Personal Protection Hazardous Components (Chemical Name)** CAS# **OSHA PEL ACGIH TLV Other Limits** 1. TR-FRET Assay Buffer Additive NA No data. No data. No data. **Hazardous Components (Chemical Name)** CAS# **Britain EH40** France VL **Europe** 1. TR-FRET Assay Buffer Additive No data. No data. No data. NA

Protective Equipment Summary - Hazard

**Label Information:** 

Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2.1 Eye Protection: Safety glasses

**8.2.2.2 Protective Gloves:** Compatible chemical-resistant gloves



# **SAFETY DATA SHEET TR-FRET Assay Buffer Additive**

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Lab coat Other Protective Clothing:

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

**Environmental Exposure Controls:** No data available.

Section	Physical and Chemical Properties
9.1 Information on Basic Physical and Che	mical Properties
Physical States:	[ ] Gas [ ] Liquid [ X ] Solid
Appearance and Odor:	Lyophilized
Melting Point:	No data.
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Autoignition Pt:	No data.
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
9.2 Other Information	
Percent Volatile:	No data.
Se	ction 10. Stability and Reactivity
10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [ ] Stable [ X ]
10.3 Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
10.4 Conditions To Avoid:	No data available.
10.3 Polymerization:	Will occur [ ] Will not occur [ X ]
10.5 Incompatibility - Materials To Avoid:	strong oxidizing agents
10.6 Hazardous Decomposition Or	No data available.
Byproducts:	
Sec	tion 11. Toxicological Information
11.1 Information on Toxicological Effects:	The toxicological effects of this product have not been thoroughly studied.
Chronic Toxicological Effects:	No data available.
Hazardaya Campananta (Chamical Nama)	CAC# NTD LADO ACOUL

### **Hazardous Components (Chemical Name)** IARC n.a. 1. TR-FRET Assay Buffer Additive NA n.a. n.a. n.a.



12.1

Toxicity:

# SAFETY DATA SHEET **TR-FRET Assay Buffer Additive**

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Section 12. Ecological Information

Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

Dispose in accordance with local, state, and federal regulations. 13.1 **Waste Disposal Method:** 

Section 14. Transport Information

LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

**ADR/RID Shipping Name** Not dangerous goods.

**AIR TRANSPORT (ICAO/IATA)** 

ICAO/IATA Shipping Name Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

**European Community Hazard Symbol codes** Xn: Harmful

**European Community Risk and Safety Phrases** 

R22 - Harmful if swallowed.

- Avoid contact with skin and eyes. S24/25

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

**US EPA SARA Title III** 

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
TR-FRET Assay Buffer Additive	NA	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
TR-FRET Assay Buffer Additive	NA	No	No	No	No

**Regulatory Information Statement:** This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European

Directive 67/548/EEC as amended.

### Section 16. Other Information

**Revision Date:** 10/11/2013

### **Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



# **SAFETY DATA SHEET** (+)-JQ1 Positive Control

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according to Regulation (EC) No. 1907/2006

Revision: 10/11/2013

Supersedes Revision: 07/09/2012

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

## Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 600505

**Product Name:** (+)-JQ1 Positive Control

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

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

### Section 2. Hazards Identification

GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable

according to GHS.

GHS Precaution Phrases: No data available.

GHS Response Phrases: No data available.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and

Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

Target Organs: No data available.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients					
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	
1. (+)-JQ1 Positive Control NA 100.0 % NA No phrases apply.					
Costion 4 First Aid Massures					

### Section 4. First Aid Measures

4.1 Description of First Aid Measures:

**4.1.1 In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

**4.1.2** In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**4.1.3** In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

**4.1.4** In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



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Indication of any immediate medical attention and special treatment needed:

No data available.

# Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

> Flash Pt: No data.

**Autoignition Pt:** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Hazardous Combustion Products:** No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

### Section 6. Accidental Release Measures

**Protective Precautions, Protective** Avoid raising and breathing dust, and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 **Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**Methods and Material For** 6.3 Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

## Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name) CAS # OSHA PEL ACGIH TLV Other Limits						
1. (+)-JQ1 Positive Control	NA	No data.	No data.	No data.		
Hazardous Components (Chemical Name) C		Britain EH40	France VL	Europe		
1. (+)-JQ1 Positive Control	NA	No data.	No data.	No data.		

**Protective Equipment Summary - Hazard** 

**Label Information:** 

Compatible chemical-resistant gloves Eye wash station in work area Lab coat

glasses Safety shower in work area Vent Hood

**Engineering Controls (Ventilation** 8.2.1

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

8.2.2.1 Eye Protection: Safety glasses

8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.



# SAFETY DATA SHEET (+)-JQ1 Positive Control

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**Environmental Exposure Controls:** No data available. Section 9. Physical and Chemical Properties Information on Basic Physical and Chemical Properties 9.1 **Physical States:** [ ] Gas [ ] Liquid [X] Solid Appearance and Odor: A lyophilized powder **Melting Point:** No data. **Boiling Point:** No data. Flash Pt: No data. **Evaporation Rate:** No data. Vapor Pressure (vs. Air or mm Hg): No data. Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. **Autoignition Pt:** No data. **Explosive Properties:** No data available. **Oxidizing Properties:** No data available. Other Information **Percent Volatile:** No data. Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [ ] Stable [X] 10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. 10.4 **Conditions To Avoid:** No data available. 10.3 Polymerization: Will occur [ ] Will not occur [X] Incompatibility - Materials To Avoid: 10.5 No data available. **Hazardous Decomposition Or** No data available. **Byproducts:** Section 11. Toxicological Information Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. **Chronic Toxicological Effects:** No data available. **Hazardous Components (Chemical Name)** CAS# NTP **IARC ACGIH OSHA** (+)-JQ1 Positive Control NA n.a. n.a. n.a. n.a. Section 12. Ecological Information Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. Section 13. Disposal Considerations 13.1 **Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information LAND TRANSPORT (US DOT) **DOT Proper Shipping Name** Not dangerous goods.



# SAFETY DATA SHEET (+)-JQ1 Positive Control

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LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

### **European Community Hazard Symbol codes**

No data available.

### **European Community Risk and Safety Phrases**

S24/25 - Avoid contact with skin and eyes.

S37/39 - Wear suitable gloves and eye/face protection.

### **US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. (+)-JQ1 Positive Control	NA	No	No	No	No
			•		•

### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. (+)-JQ1 Positive Control	NA	No	No	No	No

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European **Regulatory Information Statement:** 

Directive 67/548/EEC as amended.

### Section 16. Other Information

10/11/2013 **Revision Date:** 

### **Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



**BRD4** bromodomains 1 and 2 Europium Chelate

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Revision: 10/11/2013

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



### Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 600831

**Product Name:** BRD4 bromodomains 1 and 2 Europium Chelate

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

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification					
GHS Classification Placard Key word GHS hazard phrase					
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed		
Skin Corrosion/Irritation, Category 3	none	Warning	Causes mild skin irritation		
Serious Eye Damage/Eye Irritation, Category 2A	Exclamation point	Warning	Causes serious eye irritation		
Skin Sensitization, Category 1	Exclamation point	Warning	May cause an allergic skin reaction		

GHS Hazard Phrases: H302: Harmful if swallowed.

H316: Causes mild skin irritation.H319: Causes serious eye irritation.H317: May cause an allergic skin reaction.

GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P272: Contaminated work clothing should not be allowed out of the workplace.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Response Phrases: P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention. P302+352: IF ON SKIN: Wash with plenty of soap and water.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and

Symptoms:

Causes mild skin irritation.

Causes serious eye irritation.

Harmful if swallowed.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause an allergic skin reaction.

May cause respiratory system irritation.



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To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Target Organs: No data available.

Medical Conditions Generally Aggravated By No data available.

**Exposure:** 

Section 3. Composition/Information on Ingredients						
Hazardous Components (Chemical Name) CAS # Concentration EC# Risk Phrases RTECS #						
BRD4 bromodomains 1 and 2 Europium     Chelate	NA	1.0 -10.0 %	NA	R22-36-43	NA	
2. HEPES, free acid	7365-45-9	0.0 -5.0 %	230-907-9	R43-36/37/38	TL6809000	
3. Sodium chloride	7647-14-5	< 1.0 %	231-598-3	R36	VZ4725000	
4. Water	7732-18-5	>84.0 %	231-791-2	No phrases apply.	ZC0110000	

### Section 4. First Aid Measures

4.1 Description of First Aid Measures:

**4.1.1 In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

**4.1.2** In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**4.1.3** In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

**4.1.4 In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

No data available.

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

No data available.

# Section 5. Fire Fighting Measures

**5.1 Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

**5.2** Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Hazardous Combustion Products:** No data available.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

### Section 6. Accidental Release Measures

**6.1 Protective Precautions, Protective** Avoid breathing vapors and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.



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Safety

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# Section 7. Handling and Storage

**7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits		
BRD4 bromodomains 1 and 2 Europium     Chelate	NA	No data.	No data.	No data.		
2. HEPES, free acid	7365-45-9	No data.	No data.	No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
4. Water	7732-18-5	No data.	No data.	No data.		
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe		
BRD4 bromodomains 1 and 2 Europium     Chelate	NA	No data.	No data.	No data.		
2. HEPES, free acid	7365-45-9	No data.	No data.	No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
4. Water	7732-18-5	No data.	No data.	No data.		

**Protective Equipment Summary - Hazard** 

**Label Information:** 

Eye wash station in work area Lab coat

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

**8.2.2.1 Eye Protection:** Safety glasses

**8.2.2.2 Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

**8.2.3 Environmental Exposure Controls:** No data available.

Section	9. Physical and Chemical Properties
9.1 Information on Basic Physical and Cl	nemical Properties
Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Solution
рН:	8.0
Melting Point:	No data.
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.



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Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

Percent Volatile: No data.

# Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

**10.3 Stability Note(s):** Stable if stored in accordance with information listed on the product insert.

**10.4 Conditions To Avoid:** No data available.

**10.3 Polymerization:** Will occur [ ] Will not occur [ X ]

10.5 Incompatibility - Materials To Avoid: No data available.
 10.6 Hazardous Decomposition Or No data available.

**Byproducts:** 

# Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
BRD4 bromodomains 1 and 2 Europium	NA	n.a.	n.a.	n.a.	n.a.
Chelate					
2. HEPES, free acid	7365-45-9	n.a.	n.a.	n.a.	n.a.
3. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.
4. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

# Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

# Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.



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# Section 15. Regulatory Information

European Community Hazard Symbol codes Xn: Harmful

### **European Community Risk and Safety Phrases**

R22 - Harmful if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### **US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
BRD4 bromodomains 1 and 2 Europium	NA	No	No	No	No
Chelate					
2. HEPES, free acid	7365-45-9	No	No	No	No
3. Sodium chloride	7647-14-5	No	No	No	No
4. Water	7732-18-5	No	No	No	No

### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
BRD4 bromodomains 1 and 2 Europium	NA	No	No	No	No
Chelate					
2. HEPES, free acid	7365-45-9	No	No	Inventory	No
3. Sodium chloride	7647-14-5	No	No	Inventory	No
4. Water	7732-18-5	No	No	Inventory	No

**Regulatory Information Statement:** 

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European  $\,$ 

Directive 67/548/EEC as amended.

# Section 16. Other Information

**Revision Date:** 10/11/2013

### **Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



# BRD4 bromodomains 1 and 2 Ligand/APC Acceptor Mixture

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Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108





### Section 1. Identification of the Substance/Mixture and of the

**1.1 Product Code:** 600832

**Product Name:** BRD4 bromodomains 1 and 2 Ligand/APC Acceptor Mixture

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

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification						
GHS Classification	Placard	Key word	GHS hazard phrase			
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed			
Skin Corrosion/Irritation, Category 3	none	Warning	Causes mild skin irritation			
Serious Eye Damage/Eye Irritation, Category 2A	Exclamation point	Warning	Causes serious eye irritation			
Target Organ Systemic Toxicity (single exposure), Category 3	Exclamation point	Warning	May cause respiratory irritation,or may cause drowsiness and dizziness			
Target Organ Systemic Toxicity (repeated exposure), Category 2			May cause damage to {lungs} through prolonged or repeated exposure.			
Aquatic Toxicity (Chronic), Category 3	none	İ	Harmful to aquatic life with long lasting effects			

GHS Hazard Phrases: H302: Harmful if swallowed.

H316: Causes mild skin irritation.H319: Causes serious eye irritation.H335: May cause respiratory irritation.

H373: May cause damage to {lungs} through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}. P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.

P273: Avoid release to the environment.

GHS Response Phrases: P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P314: Get medical attention/advice if you feel unwell.



BRD4 bromodomains 1 and 2 Ligand/APC

**Acceptor Mixture** 

**Adverse Human Health Effects and** 

**GHS Storage and Disposal Phrases:** 

Symptoms:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

Causes mild skin irritation.

Causes serious eye irritation. Harmful if swallowed.

Harmful to aquatic life with long lasting effects.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause damage to {lungs} through prolonged or repeated exposure.

May cause respiratory irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**Target Organs:** Lungs.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients					
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #
1. BRD4 bromodomains 1 and 2 Ligand/APC	NA	99.6 -100.0 %	NA	R22-36/37/38-33	NA
Acceptor Mixture					
2. Sodium azide	26628-22-8	0.0 -0.4 %	247-852-1	R28-32-50/53	VY8050000

### Section 4. First Aid Measures

4.1 **Description of First Aid Measures:** 

In Case of Inhalation: 4.1.1 Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

No data available.

Indication of any immediate medical

attention and special treatment needed:

No data available.

## Section 5. Fire Fighting Measures

5.1 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Suitable Extinguishing Media:

Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

Flash Pt: No data.

**Autoignition Pt:** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Hazardous Combustion Products:** No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Multi-region format

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BRD4 bromodomains 1 and 2 Ligand/APC

**Acceptor Mixture** 

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### Section 6. Accidental Release Measures

**6.1 Protective Precautions, Protective** Avoid raising and breathing dust, and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

## Section 7. Handling and Storage

**7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

**7.2** Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TWA	Other Limits		
BRD4 bromodomains 1 and 2 Ligand/APC     Acceptor Mixture	NA	No data.	No data.	No data.		
2. Sodium azide	26628-22-8	No data.	CEIL: 0.29 mg/m3	No data.		
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe		
BRD4 bromodomains 1 and 2 Ligand/APC     Acceptor Mixture	NA	No data.	No data.	No data.		
2. Sodium azide	26628-22-8	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3		

**Protective Equipment Summary - Hazard** 

**Label Information:** 

Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

**8.2.2.1 Eye Protection:** Safety glasses

**8.2.2.2 Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

**8.2.3** Environmental Exposure Controls: No data available.

# Section 9. Physical and Chemical Properties

9.1	Information	on Basic Ph	ysical and	Chemical	<b>Properties</b>
-----	-------------	-------------	------------	----------	-------------------

Physical States: [ ] Gas [ ] Liquid [ X ] Solid

Appearance and Odor: A lyophilized powder

Melting Point: No data.



BRD4 bromodomains 1 and 2 Ligand/APC

**Acceptor Mixture** 

No data.

**Boiling Point:** 

Flash Pt: No data.

**Evaporation Rate:** No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

**Autoignition Pt:** No data.

**Explosive Properties:** No data available. **Oxidizing Properties:** No data available.

Other Information

**Percent Volatile:** No data.

# Section 10. Stability and Reactivity

Reactivity: No data available. 10.1

10.2 Stability: Unstable [ ] Stable [X]

Stable if stored in accordance with information listed on the product insert. Stability Note(s):

10.4 **Conditions To Avoid:** No data available.

10.3 Polymerization: Will occur [ ] Will not occur [X]

10.5 Incompatibility - Materials To Avoid: No data available. 10.6 **Hazardous Decomposition Or** No data available.

**Byproducts:** 

# Section 11. Toxicological Information

Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

**Chronic Toxicological Effects:** No data available.

Н	azardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1.	BRD4 bromodomains 1 and 2 Ligand/APC	NA	n.a.	n.a.	n.a.	n.a.
	Acceptor Mixture					
2.	Sodium azide	26628-22-8	n.a.	n.a.	A4	n.a.

# Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

# Section 13. Disposal Considerations

13.1 **Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

**ADR/RID Shipping Name** Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations. Page: 4

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BRD4 bromodomains 1 and 2 Ligand/APC

**Acceptor Mixture** 

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# Section 15. Regulatory Information

European Community Hazard Symbol codes Xn: Harmful

### European Community Risk and Safety Phrases

R22 - Harmful if swallowed.

R33 - Danger of cumulative effects.

R36/37/38 - Irritating to eyes, respiratory system and skin.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### **US EPA SARA Title III**

Haza	ardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. B	BRD4 bromodomains 1 and 2 Ligand/APC	NA	No	No	No	No
А	Acceptor Mixture					
2. S	Sodium azide	26628-22-8	Yes 500 LB	Yes 1000 LB	Yes	No

### Other US EPA or State Lists

Н	azardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1.	BRD4 bromodomains 1 and 2 Ligand/APC	NA	No	No	No	No
	Acceptor Mixture					
2.	Sodium azide	26628-22-8	No	No	Inventory	No

**Regulatory Information Statement:** 

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

## Section 16. Other Information

Revision Date:

10/11/2013

### **Company Policy or Disclaimer**

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