

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : E3330

Product Number : 10-4000

Brand : Focus Biomolecules

CAS-No. : 136164-66-4

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

Identified uses : For Laboratory Research Use Only

1.3 Details of the supplier of the safety data sheet

Company : Focus Biomolecules

400 Davis Drive, Suite 600 Plymouth Meeting, PA 19462

Telephone : +1 855-362-8721

E-mail : support@focusbiomolecules.com

1.4 Emergency telephone number

Emergency Phone # : CHEMTREC within USA/Canada 1-800- 424-9300

CHEMTREC outside USA/Canada 1-703-527-3887

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity Oral (Category 4), H302

Hazardous to the aquatic environment, long-term hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16. GHS

# Label elements, including precautionary statements

2.2 Pictogram



Warning



Signal word

Hazard statement(s) H315

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 Avoid release to the environment

P301 + P312 IF SWALLOWED: Call a POISON CONTROL CENTER or doctor/physician

if you feel unwell.

P501 Dispose of contents/container to an approved waste disposal plant

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# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS 6<sup>2</sup>± <sup>2</sup>»

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

ĺ §² ±² §³ - æ (2E)-2-[(4,5-Dimethoxy-2-methyl-3,6-dioxocyclohexa-1,4-dien-1-yl)methylidene]undecanoic acid; (2E)-3-[5-(2,3-Dimethoxy-6-methyl-1,4-benzoquinoyl)]-2-nonyl-2-propenoic acid

 Ú±® «'¿
 æ  $C_{21}H_{30}O_3$  

 Ó±'»½«'¿®É »·¹, ¬
 æ 378.47 g/mol

 ÝßÍ ÓÒ±ò
 æ 136164-66-4

## 6Hazardous components

ݱ³ °±²» ²¬	Ý'¿ <sup>.0.1</sup> /¿¬±²	ݱ <sup>21</sup> / <sub>2</sub> » <sup>2</sup> ¬®¬± <sup>2</sup>
Afatinib		
	Acute Tox Oral (Cat 4); H302	Ó
	Tox Aq Life H411	
1/16 - 0 " - " - 10 - 04/1 - 3 2 - 3	3 2 - 12 1/2 - 1 1/- 12 - 1 1/- 12 !! \$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

Ú±®¬»%«"¬»¬±°¬» Øď ¬¬¬»³»²¬-³ »²¬±²»¼²¬, - ĺ »½±²ô-»» ĺ »½±² ï êò

#### 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

## **General advice**

ݱ²- «´¬ ¿° §-½;²ò Í ± © ¬ - - ; °» f§ ¼; ¬ - , » »¬¬±¬, » ¼±½±® ;; ¬¬»²¼; ½%»òÓ±a » ±«¬±° ¼; ²¹ »®±«-; ®»¿ò

#### If inhaled

 $\times^{03}/(8)$   $\times^{13}/(4^{2})$   $\hat{0}$   $3 \pm^{a}$   $\hat{0}$   $8 \pm^{2}$   $2^{-1} \pm^{9}$   $9 - 2 \cdot 9 \times^{a} \pm^{-3}/(8)$   $2 \cdot 7 \cdot 6 \times^{a} \pm^{-3}/(8)$   $2 \cdot 7 \cdot 8 \cdot$ 

#### In case of skin contact

É ¿-¸±°°©·¬¸-±¿° ¿²¼°′»²¬§±°©¿¬® ݱ²-«′¬ ¿°¸ §-½¿²ò

#### In case of eve contact

η ²- » ¬± @•«¹ , ´§ ©·¬ ° ´»² ¬§ ±° ©; ¬»® ±®; ¬»; -¬ ïë ³ ²« ¬»-; ²¼ ½±²- «´¬; ° , §- :½; ²ò

#### If swallowed

Ò»²»®¹²»;²§¬,²¹¾§³ ±«¬, ±;² «²½²-½±«-°»®±²ò∫²-»³ ±«¬, ©¬, ©;,¬® ݱ²-«'¬;°, §-½;²ò

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

) » 3 ±-¬3 °±®; 2¬ 13±°°2 - §3 °¬±3 - ; 21/4 9°» 1/2-; ®»1/4» 1/88/4 9/4 2 ¬» '; 3/4» ".21 Ø»» -» 1/2±2 î òî÷ ; 21/4 ñ±® - » 1/2±2 ïï

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

2± 1/4; 7; 2; a; ... 3/4»

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Ë-» ©;¬®-°®;§ô;½±±′ó®--¬;²¬±;³ ô′o®,½»³ ½;′±®¼;®¾±¾±±1¼;mò

# 5.2 Special hazards arising from the substance or mixture

Ý¿®¾±2±"·¼»-

# 5.3 Advice for firefighters

É»¿®»°½²¬¿²»¼¾360;¬¸²¹;°°;®;¬«-°±® 600°.1,¬²¹.°°²»½»--;660°

## 5.4 Further information

2± 1/4; 7; 2 a; 1,3/4»

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ë-»°»®±²¿´°®±¬»½°»°¯«·°³ »²¬ò β±½¼¼«¬±®³¿¬±²òß°±½¾¾®»況²¹ °¿°±«®ô³ -¬±®'¿-ò Û-«®» ¼¾¯«¿¬» °³»²¬½¬±²òß°±½¼¾®»¿¬²¹¼«¬ò Ú±®°»®±²¿´°®±¬»½±² -»»-»½±² èò

 $\pm 2330$   $\pm 2^{\circ}$   $\pm 2^{\circ}$   $\pm 2^{\circ}$   $\pm 2^{\circ}$ 

# 6.2 Environmental precautions

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## 6.3 Methods and materials for containment and cleaning up

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¼-°±-¿′ò

## 6.4 Reference to other sections

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#### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

# 7.2 Conditions for safe storage, including any incompatibilities

Õ»»° ½±²¬¿·²»®·¹¸¬´§½′±-»¼² ¿¼®§²¼©»′′ó³»²¬·´¿¬»¼°′¿½»ò λ½±³³»²¼»¼ -¬±®;¹» ¬»³°»®;¬«®»źæ0 pÝ

## 7.3 Specific end use(s)

β°¿®® 8 つ» «-»- 3 »²¬±²» ¼²- »½±² ïòî ²± ±¬,»® -°» ½º.½«-»- ¿®» ¬º« ´¿¬¾₄

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

# Components with workplace control parameters

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# 8.2 Exposure controls

# **Appropriate engineering controls**

# Personal protective equipment

#### Eve/face protection

#### Skin protection

Ø¿²¼» ©¬¸¹′±å»-ò Ù±å»- ³ «-¬³¾²²-°» ½π¾²®±®¬±«-»òË-»°®±°»®¹′±å» ®³ ±å¿´¬»½² ·¯«» Ø□¬± «¬¬±¼₂·²¹ ¹′±å»ù-±«¬»® «®ஜ½»÷¬± 費±¼-µ²½±²¬¿½©·¬¸¬¸-°®±¼½๗Ü-°°±-»±°½±²¬¿³²¿¬¾⁴¹′±å»-¿⁰¬»® «-»² ¿½½®¼½²½©¬¸;°°′½²¾» ′;©- ¿²¼¹±±¼′¿¾±®¿¬\$®®;½»-òÉ ;-¸¿²¼¼®¸;²¼-ò

#### **Body Protection**

#### Respiratory protection

Ú±® ²«- ¿²½» »"°±- «®»-«-» ¬§° » Đọẽ đỂ i ÷±® §° » Đĩ đŨỀ ŨÒ ïì i÷ °¿ ጭ½» ®»-² ®¬ΦοÚ±®,¹¸ »® ¾° »′ °®±¬»½² «- » ¬§° » ÑÊĩBÙ ñĐợc đỂ i ÷±® §° » BÞŨÕĐÎ đŨỀ ŨÒ ïì i÷ ®>-° ·®, ±® ½®Φ¼¹»-ò Ё-» ®»-² ·®,¬±®, ½²¼¹½³ °±²» ²¬- ¬»-¬»½;²¼¿°°®±³»¼ «¾»®;°°®±®.;¬»¹ ±² »®²³ »²¬ ¬;²¼,В¾-- «⅓ ¿- Ò×Ñ Ø đЁ i ÷±® YŨÒ đŨЁ÷ò

#### Control of environmental exposure

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

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 Form: solid

 Colour: orange

 ¾÷ Ѽ±x®
 ²± ½¬¿²¿´; ¾»

c) 
$$\tilde{N}_{4\pm (8)}^{1}$$
  $\tilde{l}_{3}^{8}$   $\tilde{l}_{3}^{9}$   $\tilde{l}_{3}^{2}$   $\tilde{l}_{4}^{2}$   $\tilde{l}_{4}^{2$ 

# 9.2 Other safety information

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

# 10.2 Chemical stability

# 10.3 Possibility of hazardous reactions

# 10.4 Conditions to avoid

#### 10.5 Incompatible materials

## 10.6 Hazardous decomposition products

 $\tilde{\mathbb{N}}_{3}$ » $\mathbb{N}_{4}$ » $\mathbb{N}_{2}$ ± $^{3}$ ° $\pm$ -··· $\pm$  $^{2}$ ° $\mathbb{R}$ ± $\mathbb{N}_{4}$ « $\mathbb{N}_{2}$ 6Carbon oxides, nitrogen oxides, hydrogen chloride, hydrogen fluoride × $^{2}$ 3, » » $^{a}$ » $^{2}$ 3 ± $^{0}$ 9. $\mathbb{R}$ 9 \*\* -» $\mathbb{N}_{2}$ 9. $\mathbb{N}_{2}$ 9 \*\* -» $\mathbb{N}_{2}$ 9. $\mathbb{N}_{2}$ 9 \*\* -» $\mathbb{N}_{2}$ 9. $\mathbb{N}_{2}$ 9 \*\* -» $\mathbb{N}_{2}$ 9

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

#### **Acute toxicity**

E3330

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Ü»® ¿´æŧ± ¼♂¿¿ã¸;´;¾»

2± 1/4; 7; 2; a; ... ; 3/4»

#### Skin corrosion/irritation

2± 1/4; ¬¿¿a¿.′¿³/4»

# Serious eye damage/eye irritation

2± 1/4;7;;2°;1';3/4»

# Respiratory or skin sensitisation

2± 1/4; 7; 2; a; 1; 3/4»

# Germ cell mutagenicity

2± 1/4; ¬;; a; ·'; 3/4»

# Carcinogenicity

×βΥœ Ò± ½³ °±²»²¬±°¬¸- °®±¼½½° '®¬»²¬¿¬′»²»′- ¹®»¿¬®¬¸¿² ±®»¯«¿´¬±ðòïû -- ½»²¬⁰»¼ ¿
°®±¾¾¼»ô °±-- ¾» ±® ½° °® »¼,« ³ ¿² ½;®⅓½ ¹ »² ¾ξ ×βΥò

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ÑĺØßæ Ò±½³°±²»²¬±°¬¸-°®±¼½°⅓»-»²¬¿¬′»²»′-¹®»¿¬®¬¸¿²±®»¯«¿´¬±ðòïû --⅓»²¬⁴.»¼ ξ ξ ½®⅓±¹»²±®°±¬β¬;´½®½±¹»²¾ξÑĺØßò

# Reproductive toxicity

2± 1/4; ¬¿; a; ·′; 3/4»

2± 1/4; 7; 2; a; 1; 3/4»

# Specific target organ toxicity - single exposure

2± 1/4;7;;2°;2'3/4»

# Specific target organ toxicity - repeated exposure

2± 1/4; ¬; ; a; ·; ·; 3/4»

# **Aspiration hazard**

2± 1/42766°6'5'63%»

#### **Additional Information**

RTECS: YQ2320000

Ĭ±¬¸» ¾»-¬±°±«®µ²±©′»¼¹»ô¬¸»½¸,»³٠½¿´ô¸§-٠½¿´ô¿²¼¬±¨٠½±′±¹٠½;€®±°»®¬·»¸¿a» ²±¬¾»»²¬¸±®±«¹¸´§ ·²a»-¬·¹¿¬»¼ò

# 12. ECOLOGICAL INFORMATION

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### 12.1 Toxicity

## 12.2 Persistence and degradability

## 12.3 Bioaccumulative potential

# 12.4 Mobility in soil

# 12.5 Results of PBT and vPvB assessment

## 12.6 Other adverse effects

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

## DOT (US)

Not dangerous goods

## **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

# 15. REGULATORY INFORMATION

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

# **Massachusetts Right To Know Components**

# **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

CAS-No. Revision Date

E3330 136164-66-4

**New Jersey Right To Know Components** 

CAS-No. Revision Date

E3330 136164-66-4

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

H302

Skin Irrit.

## **HMIS Rating**

Health hazard: 0
Chronic Health Hazard:
Flammability: 0
Physical Hazard 0

## **NFPA** Rating

Ø»¿'¬¸¸¿¦¿®ૠ 0 Ú® Ø¿¦¿®ૠ δ ĺ»¿½'-²-§Ø¿¦¿®ૠ δ

## **Further information**

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