

% = 89BH = 75H = CB C : H < 9 GI 6GH5B79 # A = LHI F9 5B8 C : H < 9 7CAD5BM # I B89FH5 ? = B ;

% % Df c Xi Wh = XYbh] Z] Yf g
 Df c Xi Wh BUaY . 8C7? (FYWc a V] bUbh Df chY] b 5bh] [Yb
 7Uhu c [Bi a VYf . B6D&!) +)) D9D

% & FY Yj Ubh] XYbh] Z] YX i gYg c Z h \ Y gi VghUb WY c f a] l h i f Y UbX i gYg UXj] gYX U [U] bgh
 Identified Uses: For research use only.

% 8YhU] g c Z h \ Y gi d d] Yf c Z h \ Y g UZYhm XUhu g \ YYh

Company:	Novus Biologicals a Bio-Techne Brand 10771 E Easter Ave Centennial, CO 80112 USA	Telephone: Fax: Internet: Email address:	1-888-506- 1-303-730-1966 www.novusbio.com novus@novusbio.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone: Fax: Email address:	1-855-668-8722 902-827-6402 Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone: Fax: Email address:	44 (0)1235 529449 44 (0)1235 533420 info.emea@bio-techne.com

% (9a Yf [Yb Wm HY Yd \ c b Y Bi a VYf
 Emergency Tel: US: 303-730-1950 or 888-506-6887 / Europe: +44(0)1235-529449

& < 5N5F8G = 89BH = 75H = CB

& % 7 Ug g] Z] WUh] c b c Z h \ Y gi VghUb WY c f a] l h i f Y
 Classification according to the Regulation (EC) No 1272/2008 Not Classified

& & @UVY 9 Ya Ybh g
 Labelling according to Regulation (EC) No 1272/2008 Not Regulated

& Ch \ Yf < Un Uf Xg
 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

' 7CADCG = H = CB # = B : CFA5H = CB CB = B ; F98 = 9BHG

' % Gi VghUb WYg
 Not applicable.

' & A] l h i f Yg
 This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

(: = FGH 5 = 8 A95GI F9G

(% 8Yg Wf] dh] c b c Z Z] f gh U] X a YUgi f Yg
 ; YbYf U 5Xj] WY
 Consult a doctor and show this safety data sheet.

= Z = b \ U YX
 Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
 = b 7Ug Y c Z G _] b 7c bh UWh
 Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
 = b 7Ug Y c Z 9mY 7c bh UWh
 Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

= Z Gk U c k YX
 Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

(& Ac gh] a d c f hUbh g ma dh c a g UbX YZZYWh g z Vch \ UWi hY UbX XY UmYX
 To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

(= bX] WUh] c b c Z] a a YX] UhY a YX] WU Uh h Ybh] c b UbX g d YW] U h f YUha Ybh b Y Y Y X
 Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

) : = F9 ! : = ; < H = B ; A95GI F9G

) " % 91 h] b[i] g \] b [' A Y X] U '
G i] h U V ' Y ' Y l h] b [i] g \] b [' a Y X] U '
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

) " & G d Y W] U ' \ \ U n U f X g ' U f] g] b [' Z f c a ' h \ Y ' g i V g h U b W Y ' c f ' a] l h i f Y '
Carbon oxides, Nitrogen oxides (NOx)

) " ' ' D f Y W U i h] c b g ' Z c f ' Z] f Y ! Z] [\ h Y f g '
Wear self-contained breathing apparatus for firefighting if necessary

* " ' 5 7 7 = 8 9 B H = 5 @ ' F 9 @ 9 5 G 9 ' A 9 5 G I F 9 G '

* " % D Y f g c b U ' ' d f Y W U i h] c b g z ' d f c h Y W h] j Y ' Y e i] d a Y b h ' U b X ' Y a Y f [Y b W m ' d f c W Y X i f Y g '
Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

* " & 9 b j] f c b a Y b h U ' ' d f Y W U i h] c b g '
Do not let product enter drains.

* " ' ' A Y h \ c X g ' U b X ' a U h Y f] U ' g ' Z c f ' W c b h U] b a Y b h ' U b X ' W ' Y U b] b [' i d '
Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

* " (F Y Z Y f Y b W Y ' h c ' c h \ Y f ' g Y W h] c b g '
For required PPE see section 8. For disposal see section 13.

+ " ' < 5 B 8 @ = B ; ' 5 B 8 ' G H C F 5 ; 9 '

+ " % D f Y W U i h] c b g ' Z c f ' g U Z Y ' \ U b X '] b ['
Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

+ " & 7 c b X] h] c b g ' Z c f ' g U Z Y ' g h c f U [Y z '] b W ' i X] b [' U b m '] b W c a d U h] V] '] h] Y g '
Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

+ " ' ' G d Y W] Z] W ' Y b X ' i g Y g '
Not applicable.

, " ' 9 L D C G I F 9 ' 7 C B H F C @ G # D 9 F G C B 5 @ ' D F C H 9 7 H = C B '

, " % 7 c b h f c ' ' d U f U a Y h Y f g '
7 c a d c b Y b h g ' k] h \ ' k c f _ d ' U W Y ' W c b h f c ' ' d U f U a Y h Y f g '
Contains no substances with occupational exposure limit values.

, " & 9 l d c g i f Y ' W c b h f c ' g '
5 d d f c d f] U h Y ' 9 b [] b Y Y f] b [' 7 c b h f c ' g '
Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

D Y f g c b U ' ' D f c h Y W h] j Y ' 9 e i] d a Y b h '
9 m Y ' # ' : U W Y ' D f c h Y W h] c b '
Use appropriate safety glasses.

G _] b ' D f c h Y W h] c b '
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 6 c X m ' D f c h Y W h] c b '
Wear appropriate protective clothing.

F Y g d] f U h c f m ' D f c h Y W h] c b '
For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- " ' D < M G = 7 5 @ ' 5 B 8 ' 7 < 9 A = 7 5 @ ' D F C D 9 F H = 9 G '

- " % = b Z c f a U h] c b ' c b ' V U g] W ' d \ m g] W U ' ' U b X ' W \ Y a] W U ' ' d f c d Y f h] Y g '
5 d d Y U f ' clear liquid J U d c f ' D f ' No data available.
C X c f ' Little to none J U d c f ' 8 Y b g] h m ' No data available.
C X c f ' H \ f Y g \ c ' X ' No data available. F Y ' U h] j Y ' 8 Y b g] h m ' No data available.
d < ' No data available. G c ' i V] '] h m f l] Y g L ' No data available.
A Y ' h] b [' # ' : f Y Y n] b [' D c ' No data available. D U f h] h] c b ' 7 c Y Z Z] W] Y b h No data available.
6 c] '] b [' D c] b h ' # ' F U b [' No data available. 5 i h c] [b] h] c b ' H Y a d Y f U h No data available.
' U g \ ' D c] b h ' No data available. 8 Y W c a d c g] h] c b ' H Y a d Y f U h No data available.
9 j U d c f U h] c b ' F U h Y ' No data available. J] g W c g] h m ' No data available.
' U a a U V] '] h m ' f l G c '] X z ' No data available. 9 l d ' c g] j Y ' D f c d Y f h] Y g ' No data available.

I d d Y f ' # ' @ c k Y f ' ' U a a U V] '] h m ' c f ' 9 l d ' c g] j Y ' C l] X] n] b [' D f c d Y f h] Y g ' No data available.
@] a] h g ' No data available.

- " & C h \ Y f ' g U Z Y h m '] b Z c f a U h] c b '

%&") ' F Y g i ` h g ` c Z ` D 6 H ` U b X ` j D j 6 ` U g g Y g g a Y b h `

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

%&" * ` C h ` Y f ` U X j Y f g Y ` Y Z Z Y W h g `

No data available Discharge into the environment must be avoided. Discharge into the environment must be avoided. No data available Discharge into the environment must be avoided. Depending on the concentration, phosphates may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided.

%' " ` 8 = G D C G 5 @ ` 7 C B G = 8 9 F 5 H = C B G `

%' " % ` K U g h Y ` h f Y U h a Y b h ` a Y h ` c X g `

D f c X i W h `

Offer surplus and non-recyclable solutions to a licensed disposal company.

7 c b h U a] b U h Y X ` D U W _ U [] b [`

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

%(" ` H F 5 B G D C F H ` = B : C F A 5 H = C B `

Not regulated for Land Transport (ADR/RID), for Sea Transport (IMDG) or for Air Transport (IATA).

%(" % ` I B ! B i a V Y f `

Does not meet the criteria for classification as hazardous for transport.

%(" & ` I B ` d f c d Y f ` g ` \] d d] b [` b U a Y `

Does not meet the criteria for classification as hazardous for transport.

%(" ' ` H f U b g d c f h ` \ U n U f X ` W ` U g g f l Y g L `

Does not meet the criteria for classification as hazardous for transport.

%(" (` D U W _ U [] b [` [f c i d `

Does not meet the criteria for classification as hazardous for transport.

%(") ` 9 b j] f c b a Y b h U ` ` \ U n U f X g `

Does not meet the criteria for classification as hazardous for transport.

%(" * ` G d Y W] U ` ` d f Y W U i h] c b g ` Z c f ` i g Y f g `

Does not meet the criteria for classification as hazardous for transport.

5 X X] h] c b U ` ` H f U b g d c f h ` = b Z c f a U h] c b `

Does not meet the criteria for classification as hazardous for transport.

%) " ` F 9 ; I @ 5 H C F M ` = B : C F A 5 H = C B `

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

%) " % ` G U Z Y h m z ` \ Y U ` h ` \ ` U b X ` Y b j] f c b a Y b h U ` ` f Y [i ` U h] c b g # ` Y [] g ` U h] c b ` g d Y W] Z] W ` Z c f ` h ` Y ` g i V g h U b W Y ` c f

H G 7 5 ` f l H c l] W ` G i V g h U b N o t a p p l i c a b l e h f c ` ` 5 W h L ` . . .

G 5 F 5 ` ` N o t a p p l i c a b l e .

G 5 F 5 ` ` % N o t a p p l i c a b l e .

7 9 F 7 @ 5 ` F Y d c f h U V N o t a p p l i c a b l e h] h m ` . . .

7 U `] Z c f b] U ` D f N o t a p p l i c a b l e] c b ` *) ` . . .

%) " & ` 7 \ Y a] W U ` ` g U Z Y h m ` U g g Y g g a Y b h `

A Chemical Safety Assessment has not been made for this product.

%* " ` C H < 9 F ` = B : C F A 5 H = C B `

: i f h ` Y f ` = b Z c f a U h] c b `

Copyright © 2020 Novus Biologicals a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet