

Printing date 01/16/2023

Revision date 01/16/2023

Page 1/10

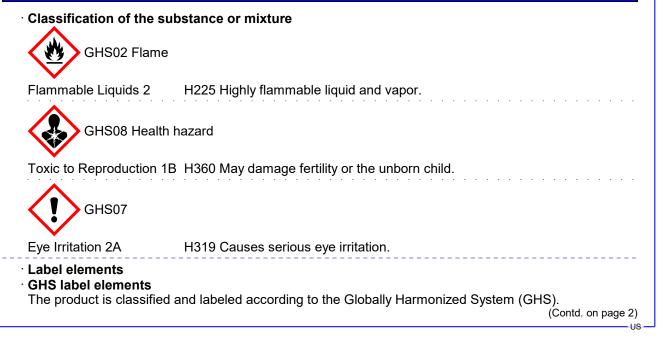
1 Identification

- · Product identifier
- · Trade name: Prostaglandin F2α-biotin
- · Article number: 10006988
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

 Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification



Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2 α -biotin

(Contd. from page 1)

Hazard pictograms Procession Procession Prostaglandin F2x-blois Hazard statements Hazard statements Procession Processio	. Honord pictory	(Contd. from page 1)
Signal word Danger Hazard-determining components of labeling: Prostaglandin F2c-biotin Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H308 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P203 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lightlng/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P245 Wear protective gloves/protective clothing/eye protection/face protection. P303+P351+P3351 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P3151 IF eyes ed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store in clocked up. P501		
Signal word Danger Hazard-determining components of labeling: Prostaglandin F2c-biotin Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H308 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P203 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lightlng/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P245 Wear protective gloves/protective clothing/eye protection/face protection. P303+P351+P3351 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P3151 IF eyes ed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store in clocked up. P501		\mathbf{A}
Signal word Danger Hazard-determining components of labeling: Prostaglandin F2c-biotin Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H308 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P203 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lightlng/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P245 Wear protective gloves/protective clothing/eye protection/face protection. P303+P351+P3351 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P3151 IF eyes ed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store in clocked up. P501	<u> < 🐨 > < !</u>	
Signal word Danger Hazard-determining components of labeling: Prostaglandin F2c-blotin Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H306 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lightlng/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P245 Wear protective gloves/protective clothing/eye protection/face protection. P303+P3381 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray t		
Hazard-determining components of labeling: Prostaglandin F2a-biotin Hazard statements H225 Highly flammable liquid and vapor. H316 Dauses serious eye irritation. H326 Mighly flammable liquid and vapor. H326 Mighly flammable liquid and vapor. H326 Mighly flammable liquid and vapor. H316 Dauses serious eye irritation. H326 Mighly flammable liquid and vapor. H226 Highly flammable liquid and vapor. H326 Mighly flammable liquid and vapor. H316 Dause serious eye irritation. H326 Mighly flammable liquid and vapor. H316 Dause serious eye irritation. P202 Do not handle until all safety precautions have been read and understood. P200 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P245 Wash thoroughly after handling. P244 Wash thoroughly after handling. P305+P351 HP353 If on skin (or hair): Take of immediately all contaminated clothing. Rinse skin with water/shower. P305+P351 HP3	GHS02 GHS	07 GHS08
Prostaglandin F2a-biotin Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P230 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P230 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If eye irritation persists: Get medical advice/attention. P307+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403 P235 Store in a well-ventilated place. Keep cool. P403 P235 Store in a well-ventilated place. Keep cool. P404 P235 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MIS-ratings (scale 0 - 4)	Signal word D	anger
Prostaglandin F2a-biotin Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Pacetionary statements Pareautionary measures against static discharge. Pathetic and pare protective gloves/protective clothing/everprotection/face protection. Pathetic and easy to do. Continue rinsing. Pathetic and easy to do. Pathetic and easy to do. Pat	Hazard-determ	nining components of labeling:
H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H300 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTH 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4)		
H319 Causes serious eve irritation. H330 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P203 Keep container tightly closed. P204 Ground/bond container and receiving equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P337+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store is coked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTH 2 Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4)	Hazard statem	ients
H360 May damage fertility or the unborn child. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTH 2 Health = 2 Fire = 3 Reactivity = 0 MIS-ratings (scale 0 - 4)	H225 Highly fla	mmable liquid and vapor.
Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P244 Wash thoroughly after handling. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If exposed or concerned: Get medical advice/attention. P337+P313 If exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local		
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from head/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If ne yes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P307+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTM 2		
P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If neyses: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P4035 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MEALTM Health = 2		statements
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If ne yees: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Image: Pire = 3 Reactivity = 0 HMIS-ratings Fire = 3 Reactivity =		
P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Image: Pire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Pire = 3 Reactivity = 0		
 P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 		
P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P244 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If neges: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) MIS-ratings (scale 0 - 4) Fire = 3 PiRe 3 Reactivity = 0 Health = 2 Pire = 3 Reactivity = 0		
P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P405 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Image: Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Image: Fire = 3 Reactivity = 0		
 P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0 		
 P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0 		
P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0		
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P307+P313 IF eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Reactivity = 0		
water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0		
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P307+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Reactivity = 0	P303+P361+P3	
present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P405 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Fire = 3 Reactivity = 0		
P308+P313IF exposed or concerned: Get medical advice/attention.P337+P313If eye irritation persists: Get medical advice/attention.P370+P378In case of fire: Use CO2, powder or water spray to extinguish.P403+P235Store in a well-ventilated place. Keep cool.P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international regulations.Classification system: NFPA ratings (scale 0 - 4) $403 + P235$ Health = 2 Fire = 3 Reactivity = 0Health = 2 Fire = 3 Reactivity = 0Health = 2 Fire = 3 Reactivity = 0	P305+P351+P3	
P337+P313If eye irritation persists: Get medical advice/attention.P370+P378In case of fire: Use CO2, powder or water spray to extinguish.P403+P235Store in a well-ventilated place. Keep cool.P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international regulations.Classification system: NFPA ratings (scale 0 - 4) $403 + 22 = 3$ Reactivity = 0Health = 2 Fire = 3 Reactivity = 0HEALTH 2 FIRE 3 Reactivity = 0	D000 . D010	
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Fire = 3 Reactivity = 0 Health = 2 Fire = 3 Reactivity = 0 Health = 2 Fire = 3 Reactivity = 0		
P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) V V V Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HEALTH Pire = 3 Reactivity = 0		
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Image: MFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 REACTIVITY [] Health = 2 Fire = 3 Reactivity = 0		
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Reactivity = 0 Health = 2 Fire = 3 Reactivity = 0		
regulations. Classification system: NFPA ratings (scale 0 - 4) 4 4 4 4 4 4 4 4		
Classification system: NFPA ratings (scale 0 - 4) 4 4 4 4 4 4 4 4	P501	
Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Reactivity 0 Health = 2 Fire = 3 Reactivity = 0	Classification	
Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 REACTIVITY 0 Reactivity = 0	NFPA ratings	(scale 0 - 4)
<pre>Price = 3 Reactivity = 0 PHNIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 Fire = 3 Reactivity 0 Reactivity = 0</pre>	н	ealth = 2
HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 REACTIVITY 0		
HEALTH2FIRE3REACTIVITY0Reactivity = 0		eactivity = 0
FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0	HMIS-ratings ((scale 0 - 4)
FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0		
REACTIVITY 0 Reactivity = 0		
Other hazards		xeactivity = 0
	Other hazards	

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 3)

US

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

(Contd. from page 2)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous compon	ents:	
CAS: 64-17-5 RTECS: KQ6300000	ethanol	99.9%
	Prostaglandin F2α-biotin	0.1%

4 First-aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
(Contd. on page 4)

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

· Protective Action Criteria for Chemicals	(Contd. from page 3)
· PAC-1:	
64-17-5 ethanol	1,800 ppm
· PAC-2:	
64-17-5 ethanol	3300* ppm
· PAC-3:	
64-17-5 ethanol	15000* ppm

7 Handling and storage

· Handling:

- Precautions for safe handling Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

• Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1000 ppm

A3

· Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.

Avoid contact with the eyes and skin.

(Contd. on page 5)

U

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

(Contd. from page 4)

- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information		
Appearance: Form:	l invia	
Color:	Liquid	
Odor:	According to product specification Alcohol-like	
Structural Formula	C35H60N4O6S	
Molecular Weight	664.9 g/mol	
Odor threshold:	Not determined.	
Formulation	A solution in ethanol	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-114.5 °C (-174.1 °F)	
Boiling point/Boiling range:	78 °C (172.4 °F)	
Flash point:	13 °C (55.4 °F)	
Flammability (solid, gaseous):	Highly flammable.	
Ignition temperature:	425 °C (797 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

	(Contd. from page 5
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	15 Vol %
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	1,000 g/l
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	1.2 mPas
Kinematic:	Not determined.
SOLUBILITY	DMF: 10 mg/ml; DMSO: 10 mg/ml; Ethanol: 10 mg/ml; PBS (pH 7.2): .1 mg/ml
Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.90 %
	999.0 g/l / 8.34 lb/gal
Solids content:	0.1 %
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50	values that are relev	ant for classification:	
64-17-5 e	thanol		
Oral	TDLO	1.14 ml/kg (man)	
	LD50	7,060 mg/kg (rat)	
	·	· ·	(Contd. on page 7)

US

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

		(Contd. from page
	TDLO	650 (man)
Dermal	LD50	40,000 mg/kg (rat)
Inhalative	TCLO	1,800 (hmn)
	LC50	10 h - 20,000 mg/m³ (rat)
	LD50 Inhalation TCLO	1,800 mg/m³/30m (hmn)
Irritation of skin	TDLO	1,800 mg/kg (wmn)
	Intraperitoneal LD50	280 mg/kg (rat)
Additional toxi The product sh	No sensitizing effects kn cological information:	own. gers according to internally approved calculation methods fo
Sensitization: I Additional toxie The product sh preparations: Irritant Carcinogenic c	No sensitizing effects kn cological information: ows the following dang ategories	gers according to internally approved calculation methods for
 Sensitization: I Additional toxid The product ship reparations: Irritant Carcinogenic c IARC (International state) 	No sensitizing effects kn cological information: ows the following dang categories onal Agency for Resea	gers according to internally approved calculation methods for
Sensitization: I Additional toxie The product sh preparations: Irritant Carcinogenic c	No sensitizing effects kn cological information: ows the following dang categories onal Agency for Resea	gers according to internally approved calculation methods for
 Sensitization: N Additional toxion The product ship reparations: Irritant Carcinogenic control IARC (Internation 64-17-5 ethano 	No sensitizing effects kn cological information: ows the following dang categories onal Agency for Resea	gers according to internally approved calculation methods f
 Sensitization: N Additional toxid The product ship reparations: Irritant Carcinogenic construction IARC (International Construction) NTP (National Construction) 	No sensitizing effects kn cological information: ows the following dang categories onal Agency for Resea	gers according to internally approved calculation methods f
 Sensitization: N Additional toxion The product ship reparations: Irritant Carcinogenic of IARC (Internation 64-17-5 ethano NTP (National Strength Strengt S	No sensitizing effects kn cological information: ows the following dang categories onal Agency for Resea l Toxicology Program) redients is listed. upational Safety & Hea	gers according to internally approved calculation methods for a second sec

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

US

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

(Contd. from page 7)

• Uncleaned packagings:
 • Recommendation: Disposal must be made according to official regulations.
 • Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN1170
UN proper shipping name DOT IMDG	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOHO
ΙΑΤΑ	SOLUTION) Ethanol solution
Transport hazard class(es)	
DOT	
RAMARABE LOUID	
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category	Warning: Flammable liquids : 33 F-E,S-D A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG Limited quantities (LQ)	1L

Printing date 01/16/2023

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

	(Contd. from page 8)
 Excepted quantities (EQ) 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara

Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
64-17-5 ethanol	ACTIV
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
64-17-5 ethanol	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
64-17-5 ethanol	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
	(Contd. on page

Printing date 01/16/2023

Revision date 01/16/2023

Trade name: Prostaglandin F2α-biotin

(Contd. from page 9)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -

 Date of preparation / last revision 01/16/2023 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 1B: Reproductive toxicity - Category 1B