

1. PRODUCT IDENTIFICATION

1.1. PRODUCT IDENTIFIERS:

Product Catalog Number:	Product Description:
F018(A-F)	CHO HCP, Lysate Std. A-F
F018H	CHO HCP Antigen Concentrate
F018H-10	
F018R	
F037(A-E)	hTransferrin Std. A-E
F037RAC	h Transferrin Reference Antigen Concentrate
F043(A-G)	Insulin Std. A-G
F043H	Insulin Antigen Conc.
F044	Protein A Concentrate for S&R
F053(A-E)	Protein A Std. A-E
F057(A-E)	h Albumin Std. A-E
F057H	HSA Antigen Concentrate
F063	CHO Control Antigen
F063CM	CHO-CM HCP Conc.
F077(A-F)	Mouse IgG1 Std. A-F
F078(A-F)	Mouse IgG2a Std. A-F
F079(A-F)	Mouse IgG2b Std. A-F
F081(A-E)	Mouse IgG Std. A-E
F083	<i>E.coli</i> Control Antigen
F093(A-F)	Mouse IgGM Std. A-F
F118	CHO Control Antigen
F132	<i>S.cerevisiae</i> Control Antigen
F138(A-F)	<i>S.cerevisiae</i> HCP Std. A-F
F138H	<i>S.cerevisiae</i> Antigen Conc.
F139(A-G)	CHO HCP, Media Std. A-G
F143(A-F)	<i>P.pastoris</i> HCP Std. A-F
F143X	<i>Pichia pastoris</i> Antigen Concentrate
F143Z	
F146	<i>P.pastoris</i> Control Antigen
F161(A-F)	hIgG Std. A-F
F166 (A-F)	hIgA Std. A-F
F171(A-F)	hIgM Std. A-F
F183(A-F)	SP2/0 HCP Std. A-F
F183A-100	SP2/0 Sample Diluent, 100mL
F183A-500	SP2/0 Sample Diluent, 500mL
F183A-1000	SP2/0 Sample Diluent, 1L
F186	SP2/0 Control Antigen
F186C	SP2/0 HCP Antigen Concentrate
F213(A-F)	Goat IgG Std. A-F
F213A-100	Goat IgG Sample Diluent, 100mL
F213A-500	Goat IgG Sample Diluent, 500mL
F213A-1000	Goat IgG Sample Diluent, 1L
F223(A-G)	NS/0 Std. A-G
F223A-100	NS/0 Sample Diluent, 100mL
F223A-500	NS/0 Sample Diluent, 500mL
F223A-1000	NS/0 Sample Diluent, 1L
F227	NS/0 Control Antigen
F227C	NS/0 HCP Antigen Concentrate
F233(A-F)	A549 Standards A-F
F233A-100	A549 Sample Diluent
F233A-500	
F233G	A549 HCP Antigen Concentrate
F237	A549 HCP Control Antigen
F243(A-F)	Goat Milk Std. A-F
F243A-100	Goat Milk Proteins Diluent, 100mL
F243A-500	Goat Milk Proteins Diluent, 500mL
F243A-1000	Goat Milk Proteins Diluent, 1L

1.1. PRODUCT IDENTIFIERS:

Product Catalog Number:	Product Description:
F243H	Goat Milk Proteins Antigens Concentrate
F247	Goat Milk Proteins Control Antigen
F253G	BHK HCP Antigen Concentrate
F282(A-F)	U.S. Insulin Std. A-F
F323(A-F)	S.aureus Std. A-F
F403(A-G)	Protein A Std. A-F
F403H	Protein A Antigen Concentrate
F413(A-F)	E.coli HCP Std. A-F
F413H	E.coli HCP Antigen Conc.
F417	E. coli Control Antigen Conc.
F453(A-F)	P.fluorescens HCP Std. A-F
F453H	P.fluorescens HCP Antigen Conc.
F465R (LC, MC, HC)	MACTM Std. (LC, MC, HC)
F493(A-F)	L.lactis Std. A-F
F493G	L.lactis HCP Antigen Concentrate
F497	L.lactis Control Antigen
F503(A-F)	Vero Cell Std. A-F
F503H	Vero Cell HCP Antigen Concentrate
F503I	Vero Cell Antigen Concentrate (No BSA)
F507	Vero Cell Control Antigen, WB
F513	BHK HCP Std.
F513G	BHK HCP Antigen Concentrate
F533(A-F)	Per.C6® HCP Std. A-F
F533H	Per.C6® cell HCP Antigen Conc.
F536	PER.C6 Control Antigen, 70uL, WB
F553(A-F)	CHO HCP, 3G Std. A-F
F553H	CHO HCP Antigen Concentrate
F553X	
F556	3G CHO HCP
F593 (A-F)	CHO HCP Standard A-F
F603(A-H)	M&G Protein A Std. A-H
F603X	Protein A Antigen Concentrate
F613(A-H)	M&G Protein A Std. A-H
F613X	Mix-N-Go Protein A Antigen Concentrate
F643(A-F)	<i>P.pastoris</i> HCP Std. A-F
F643X	<i>Pichia pastoris</i> Antigen Concentrate
F653R(A-F)	HEK 293 HCP Std. A-F
F653H	HEK 293 HCP Antigen Conc.
F653RW	HEK 293 HCP Control Antigen, WB (50µg/mL)
F653S (A-F)	HEK 293 HCP Std. A-F
F656	HEK 293 HCP Control Antigen, WB (200ug/mL, 70uL)
F743(A-H)	JSR Protein A Std. A-H
F743X	JSR Protein A Antigen Concentrate
F803(A-H)	MDCK HCP Std. A-H
F804	MDCK Antigen Conc. 1mL (2.14mg/mL) for WB
F813x	HeLa Antigen Concentrate
F843(A-H)	SF9 HCP Std. A-H
F843X	SF9 Antigen Concentrate
F953(A-H)	KanCapA™ 3G Std. A-H
F963(A-H)	EndonucleaseGTP™ Std. A-H

1.2. RELEVANT IDENTIFIED USES:

Product Use: Used in ELISA/Western Blot Kit tests.

1.3. DETAILS OF THE SUPPLIER OF THE SDS:

Manufacturer's Name: **Cygnus Technologies, LLC**
Address: 4332 Southport Supply Rd SE
Southport, NC 28461 USA

Emergency Phone: 910-454-9442 (Emergency contact)

Monday-Friday 8:30am-5:00pm

Business Phone: 910-454-9442 (Product information)

2. HAZARD IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS); (EC)No. 1272/2008(CLP):

H317 Skin Sensitization (Category 1)

2.2. LABEL ELEMENTS:

GHS Label Elements in accordance with 29 CFR 1910 (OSHA HCS); (EC)No. 1272/2008(CLP):

Pictogram: Exclamation Mark



Signal Word: Warning

Hazard Statement(s): H317 May cause allergic skin reaction.

Prevention: P261 Avoid Breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352 If on skin: Wash with plenty of soap and water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P321 Specific treatment (See supplemental first aid instruction on this label).
P363 Wash contaminated clothing before reuse.

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

2.3. OTHER HAZARDS: No other hazards known.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1. SUBSTANCE: N/A

3.2. MIXTURE:

HAZARDOUS INGREDIENTS:	CAS#	EINECS #	ICSC#	Amount	Hazard Classification	Hazard Code
ProClin® 300 Preservative	55965-84-9	Not Listed	613-167-00-5	0.1% (≤ 0.005% active ingredient)	Skin Sens. 1	H317
Each of the other components present is nonhazardous or less than the 1 percent concentration cut off limits (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)					Not Classified	None

ProClin® 300 is a registered trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

Note: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

See Section 2 for full text of Ingredient Risk Phrases and Safety Phrases.

4. FIRST-AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES:

General Advice: Seek medical attention. Show SDS

EYE CONTACT: Open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes, flush for a minimum of 15 minutes. Remove contact lenses, if worn. Seek medical attention if irritation persists.

SKIN CONTACT: Wash contacted area with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops and persists.

INHALATION: If breathed in, move victim to fresh air. If not breathing, give artificial respiration. Seek medical attention.

INGESTION: If swallowed, call physician or poison control center for most current information. Do not induce vomiting. Rinse mouth. Take a copy of the label and SDS with the victim to the health professional.

4.2. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: See section 2 and/or section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: No data available.

5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. SPECIFIC HAZARDS ARISING FROM THE MIXTURE: Carbon oxides, nitrogen oxides, Sulfur oxides, hydrogen chloride gas.

5.3. ADVICE FOR FIREFIGHTERS:

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear self contained breathing apparatus for firefighting if necessary.

5.4. FURTHER INFORMATION: No data available

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS (PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES): Proper protective equipment should be used. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Personnel should be trained for spill response operations.

6.2. ENVIRONMENTAL PRECAUTIONS: N/A

6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Trained personnel following pre-planned procedures should handle non-incident releases. Absorb spilled material using polypads or other suitable absorbent material. Place all spill residue in an appropriate container and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations.)

6.4. REFERENCE TO OTHER SECTIONS: For disposal see section 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING: Avoid getting the mixture ON YOU or IN YOU. Wash thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while using the mixture. Avoid breathing mists or sprays generated by the mixture. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store product in properly labeled, closed containers. Protect from physical damage. Keep containers closed when not in use. No incompatibilities known.

7.3. SPECIFIC END USE(S): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

8.1. CONTROL PARAMETERS: Contains no substances with occupational exposure limit values. Please check with competent authority in each country for the most recent limits in place.

8.2. EXPOSURE CONTROLS:

8.2.1. APPROPRIATE ENGINEERING CONTROLS: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Use with adequate ventilation to ensure exposure levels are maintained below the established limits.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection,) and those of Japan. Please reference applicable regulations and standards for relevant details.

8.2.2. PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Tightly fitting safety goggles or safety glasses with side shields recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

SKIN PROTECTION: Compatible protective gloves recommended. Use proper glove removal technique and ensure outside of glove is not touched. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace described in U.S. OSHA 29 CFR 1910.136.

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS: N/A

9. PHYSICAL and CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE/COLOR:	No data available	ODOR:	No data available
ODOR THRESHOLD:	No data available	PH:	No data available
MELTING POINT/FREEZING POINT:	No data available	INITIAL BOILING POINT/RANGE:	No data available
FLASH POINT:	No data available	EVAPORATION RATE (n-BuAc=1):	No data available
FLAMMABILITY (SOLID/GAS):	No data available	UPPER/LOWER FLAMMABILITY/ EXPLOSIVE LIMITS:	No data available
VAPOR PRESSURE	No data available	VAPOR DENSITY:	No data available
RELATIVE DENSITY:	No data available	WATER SOLUBILITY:	No data available
PARTITION COEFFICIENT:n-octanol/water:	No data available	AUTO-IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	No data available	VISCOSITY:	No data available
EXPLOSIVE PROPERTIES:	No data available	OXIDIZING PROPERTIES:	No data available

9.2. OTHER SAFETY INFORMATION: No data available.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY:	No data available.
10.2. CHEMICAL STABILITY:	Stable under recommended storage conditions.
10.3. POSSIBLE OF HAZARDOUS REACTIONS:	No data available.
10.4. CONDITIONS TO AVOID:	No data available.
10.5. INCOMPATIBLE MATERIALS:	Strong oxidizing agents, Reducing agents, Amines, Mercaptans.
10.6. HAZARDOUS DECOMPOSITION PRODUCTS:	No data available.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON LIKELY ROUTES OF EXPOSURE: See Section 4

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: See Section 4.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:

Irritancy of product: None known.

Sensitization to the product: This product is not known to cause human skin or respiratory sensitization.

Reproductive toxicity information: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity – The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity – The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity – The components of this product are not reported to produce teratogenic effects in humans.

Reproductive Toxicity – The components of this kit are not reported to produce reproductive effects in humans.

NUMERICAL MEASURES OF TOXICITY: None known

CARCINOGENICITY

NTP Regulated – No

IARC Regulated – No

OSHA Regulated – No

ACGIH Regulated – No

12. ECOLOGICAL INFORMATION

12.1. TOXICITY: No data available.

12.2. PERSISTENCE AND DEGRADABILITY: No data available.

12.3. BIOACCUMULATIVE POTENTIAL: No data available.

12.4. MOBILITY IN SOIL: No data available.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6. OTHER ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1. PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Members States and Japan.

14. TRANSPORTATION INFORMATION

14.1. UN NUMBER: ADR/RID: No IMDG: No IATA: No

14.2. UN PROPER SHIPPING NAME: ADR/RID: No IMDG: No IATA: No

14.3. TRANSPORT HAZARD CLASS(ES): ADR/RID: No IMDG: No IATA: No

DOT Classification Non-regulated material.

DOT Labeling Requirements None.

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is not classified as Dangerous Goods, by rules of IATA.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is not classified as Dangerous Goods by the International Maritime Organization.

14.4. PACKAGING GROUP: ADR/RID: No IMDG: No IATA: No

14.5. ENVIRONMENTAL HAZARDS: ADR/RID: No IMDG: No IATA: No

14.6. SPECIAL PRECAUTIONS FOR USER: No data available

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE. This datasheet complies with the requirements of Regulation (EC) No. 2015/830, 29 CFR 1910 (OSHA HCS).

UNITED STATES REGULATIONS:

SARA REPORTING REQUIREMENTS: None

MARINE POLLUTANT: This product contains no component listed as a Marine Pollutant under 49 CFR 172.101, Appendix B.

TSCA : All components in this product mixture are listed on the USA Toxic Substances Control Act (TSCA) inventory of chemicals or are exempt from listing.

SARA 311/312: Acute health: No; Chronic health: No; Fire: No; Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS – All of the components of this product are listed in the TSCA Inventory or exempt.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain any component above the 0.1% level which is listed as a California Proposition 65 chemical. Note the chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1910.1200 (i).

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory or exempt.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Not regulated

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does not meet the definition of any hazard class, as defined by CLP Regulation (EC) 1272/2008, please refer to Section 16 (Other Information.)

Classification – R43 May cause sensitization by skin contact

Risk Phrases –R43 May cause sensitization by skin contact.

Safety Phrases – S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS or exempt.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac – Listed or exempt

Australian Inventory of Chemical Substances (AICS) – Listed or exempt
Korean Existing Chemicals List (ECL) – Listed or exempt
Japanese Existing National Inventory of Chemical Substances (ENCS) – Listed or exempt
Philippines Inventory of Chemicals and Chemicals Substances (PICCS) – Listed or exempt
Swiss Giftlist List of Toxic Substances - Listed or exempt
U.S. TSCA - Listed or exempt

15.2. CHEMICAL SAFETY ASSESSMENT: For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
H317 May cause allergic skin reaction.
Skin Sens. – Skin Sensitizer

Prepared By: Yvonne Fenrich
Date: 24JUL2019

All chemicals may pose unknown hazards and should be used with cautions. This Safety Data Sheet (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. 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, *Cygnus Technologies, LLC* assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and protection of the environment.

End of SDS Sheet